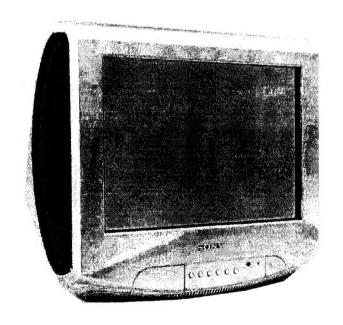


### FE-2 CHASSIS

### **SERVICE MANUAL**

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-14LT1B	RM-887	French	SCC-Q54B-A	KV-14LM1B	RM-889	French	SCC-Q54D-A
KV-14LT1E	RM-887	Spanish	SCC-Q53B-A	KV-14LM1E	RM-889	Spanish	SCC-Q53D-A
KV-14LT1K	RM-887	OIRT	SCC-Q51B-A	KV-14LM1K	RM-889	OIRT	SCC-Q51D-A
KV-14LT1U	RM-887	UK	SCC-Q52B-A	KV-14LM1U	RM-889	UK	SCC-Q52D-A

### **FD** Trinitron







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### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ À L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS Á

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

ITEM MODEL	Television System	Channel Coverage	Color System
French	B/G/H, L,I	VHF : E2-E12, F2-F10 UHF : E21-E69 CABLE TV : S01-S03, S1-S20, B-Q HYPER : S21-S41 L F02-F10, F21-F69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H	VHF : E2-E12 UHF : E21-E69 CABLE TV : S01-S03, S1-S20, B-Q HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	VHF: E2-E12, R01-R12 UHF: E21-E69, R21-R69 CABLE TV: S01-S03, S1-S20, B-Q HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	ı	I : UHF B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Model	KV-14LT1/LM1B	KV-14LT1/LM1E	KV-14LT1/LM1K	KV-14LT1/LM1U
Power Consumption	42W	42W	42W	54W

Flat Display FD Trinitron Approx. 37cm (14 inches) (Approx. 34 cm picture measured diagonally)	Sound output	1x6W (Music Power) 1x3W (RMS Mono)
90 degree deflection		
REAR]	Power Requirements	220 - 240V
Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	Approx 393x358x415mm
FRONT]	Weight	Approx 11.5kg
phono jack	Supplied Accessories	KV-14LT1: RM-887 Remote Commander (1) KV-14LM1: RM-889 Remote Commander (1) IEC designated R6 battery (2)
phono jack	Other Features	KV-14LT1: Teletext, Sleep Timer, Smartlink,TV system Autodetection KV-14LM1: Sleep Timer,TV system Autodetection
	Remote control system	Infrared control
stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
	Approx. 37cm (14 inches) (Approx. 34 cm picture measured diagonally) 90 degree deflection  REAR] Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. FRONT] phono jack	Approx. 37 cm (14 inches) (Approx. 34 cm picture measured diagonally) 90 degree deflection  REAR]  Inputs for Audio and Video signals. Inputs of TV Video and Audio signals.  FRONT]  Weight  Phono jack  Other Features  Remote control system

Model Name Item	KV-14LT1B	KV-14LT1E	KV-14LT1K	KV-14LT1U	KV-14LM1B	KV-14LM1E	KV-14LM1K	KV-14LM1U
Pal Comb	OFF							
PIP	OFF							
RGB Priority	ON	ON	OFF	ON	ON	ON	OFF	ON
Woofer Box	OFF							
Scart 1	ON							
Scart 2	OFF							
Front in (3)	OFF							
Scart 4	OFF							
Projector	OFF							
AKB in 16:9 mode	OFF							
Norm B/G	ON	ON	ON	OFF	ON	ON	ON	OFF
Norm I	ON	OFF	OFF	ON	ON	OFF	OFF	ON
Norm D/K	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Norm AUS	OFF							
Norm L	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF							
Norm M	OFF							
Teletext	ON	ON	ON	ON	OFF	OFF	OFF	OFF
Nicam Stereo	OFF							

### WARNING (UK Models only)

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 AMP rating. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie one that carries the mark.

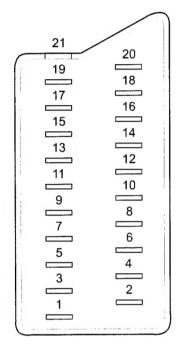
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

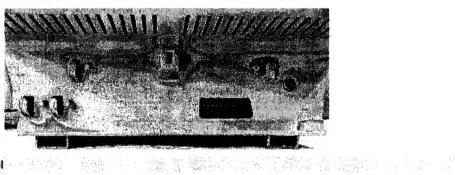


21 pin connector			5				
		Pin No	1	2	4	Signal	Signal level
		1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
		2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
		3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
		4	0	0	Ó	Ground (audio)	
		5	0	0	0	Ground (blue)	
21	20	6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
19		7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
17	18 16	8	0	0	0	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
	14	9	0	0	0	Ground (green)	
13		10	0	0	0	Open	
11	12	11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
	10	12	0	0	0	Open	
9 7	8	13	0	0	0	Ground (red)	
7		14	0	0	0	Ground (blanking)	
5	6	45	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
3	10 8 6 4 2	15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
1	2	16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
	<u> </u>	17	0	0	0	Ground (video output)	
		18	0	0	0	Ground (video input)	
		19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
		20	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
		20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
		21	0	0	0	Common ground (plug, shield)	

Connected

Not Connected (open) \* at 20Hz - 20kHz

### Rear Connection Panel



### Front Connection Panel



### FE-2 SELF DIAGNOSTIC SOFTWARE

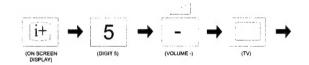
The identification of errors within the FE-2 chassis is triggered in one of two ways: -1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

### Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Reserved	03
No Vertical Sync	04
Unstable AKB	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Not Used	08
Tuner no acknowledge at power on	09
Not used	10
Jungle controller no acknowledge at Power ON	11

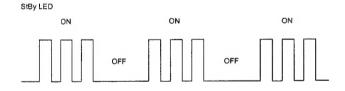
### How to enter into Table 2

- Turn on the main power switch of the TV set and enter into the 'Stanby Mode'.
- Press the following sequence of buttons on the Remote Commander.



3. The following table will be displayed indicating the error count.

### Flash Timing Example: e.g. error number 3



### Table 2

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09 E10 E11	OCP OVP N/A VSYNC IKR IIC NVM JUNGLE TUNER SOUNDP 8V	(0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255)	0 0 0 0 0 0 0 0 0 0 0 0
WORKING TIME HOURS MINUTES			0

Note: To clear the error count data press '80' on the Remote commander.

0

programme number position for your selected channel (TV Broadcast), then press  $\ lack lack$ 

2 Press the 
or 
button to select the new

to rearrange, then press the • button.

3 Repeat steps b) I and b)2 if you wish to change

the order of the other channels.

TVE2 17/E2 17/E2 17/E2 17/E2

If you do not wish to change the channel order, go to

<u>a</u>

1 Press the • or • button to select the programme number with the channel (TV Broadcast) you wish

If you wish to change the channel order:

a

After all available channels are captioned and stored,
 the Programme Sorting menu appears automatically

on the screen enabling you to change the order in

which the channels appear on the screen.

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

# Switching On the TV and Automatically Tuning

8

Please confirm that aerial is connected

that the aerial is connected. Ensure the aerial is connected

and then press the OK button to start the automatic

5 A new menu appears on the screen asking you to check

This procedure could take some minutes. Please be patient and do not press any button. Otherwise the patient and do not press any button. Otherwise the

automatic tuning will not be completed.

The TV starts to automatically search and store all available channels (TV Broadcast) for you.

The first time you switch on your TV. a sequence of menu screen appear on the TV enabling you to: 1) choose the language of the menu screen. S Lohose the country in which you wish to operate the TV. 3) search and store all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen. However, if you need to change the language menu, Linguage or pepart the tuning (e.g., when you move house) or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the (E) (Set Up). For more information, refer to the Auto Start Up Button Eq. and the TV set.

Connect the TV plug to the mains socket (220-240V AC,

Press the **O** on/off button on the TV set to turn on the TV. The first time you press this button, a Language menu displays automatically on the TV screen.

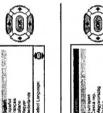




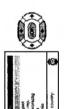




selected language







3 The Country menu appears automatically on the TV screen. Press the ◆ or ◆ button to select the country in which you will operate the TV set, then press the OK

· If the country in which you want to use the TV set

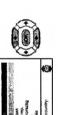
Select "-" instead of a country does not appear in the list.

button to confirm your selection.

· If you do not want your channels (TV Broadcast)

stored in a given channel sequence starting from

programme position 1.



Your TV is now ready for use

7 Press the MENU button to remove the menu from the



Do you want to start automatic funing? No.

**4** The Auto Tuning menu appears on the screen. Press the OK button to select Yes.

continued. **(8)** 

First Time Operation

First Time Operation

# Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

7 Press the MENU button to switch the first level menu on.



- 2 To highlight the desired menu or option, press ♦ or ♦.
- To enter to the selected menu or option, press
- To return to the last menu or option, press
- · To alter settings of your selected option, press

**◆** 10 **◆** / **◆** 

To confirm and store your selection, press OK.



3 Press the MENU button to remove the menu from the screen.



GB

## Menu Guide

Level 3 / Function



To do that: after selecting the item you want to alter the picture adjustments.

picture mode based on the programme you are alter press ♦ , then press repeatedly ♦ / ♦ ◆ or ◆ to adjust it and finally press OK to This menu also allows you to customise the store the new adjustment.

- Personal (for individual settings).
   Live (for live broadcast programm
   Movie (for films) watching:
- Live (for live broadcast programmes).
- Brightness. Colour and Sharpness can only be alterated if "Personal" mode is selected.
  Hue is only available for NTSC colour signal (e.g. USA video tapes).
  Select Reset and press OK to reset the picture to the factory preset levels.

Menu System | 9 continued.

### The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby Level 3 / Function SLEEP TIMER Level 2 Level 1

mode.

To do that: after selecting the option press  $\spadesuit$ , then press  $\clubsuit$  or  $\spadesuit$  to set the time period delay (max. of 4 hours) and finally press OK to store. 

6 d

standby mode, the time remaining is displayed on the TV screen automatically. time remaining. One minute before the TV switches itself into

ON TIMER
The "On Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically on from standby mode.

11111

To do that after selecting the option press  $\blacklozenge$ , then press  $\blacktriangledown$  or  $\bigstar$  to set the time period delay (max. I2 hours) and press OK to store. Finally peress the standby button  $|/\Phi|$  on the remote control. After the selected length of time the TV switches on automatically.

**8** 8

50

9

The standby indicator on the TV set flashes regularly to indicate that "On Timer" is active.
 Any loss of power will cause these settings to be cleared.

**∃**[] -1111 

The 'Language/Country' option in the 'Set Up' menu allows you to select the language that the menus are displayed in. It also allows you to select the country in which you wish to operate the TV set. LANGUAGE / COUNTRY

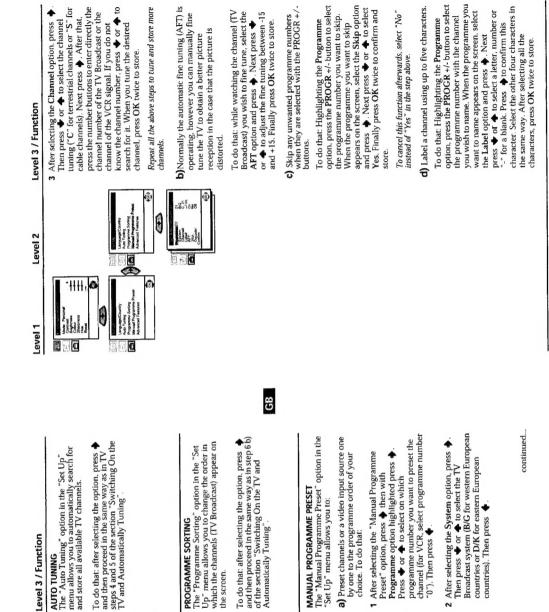
To do that: after selecting the option, press  $\Rightarrow$  and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the TV and Automatically Tuning".

continued.

Menu System



continued.



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Ø

9

Level 2

Level 1

**₫** 

1

### **Teletext**

Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below. Make sure to use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

### To Switch On Teletext:

After select the channel (TV Broadcast) which carries the teletext you wish to view, press

TELETEXT

## To Select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you have made a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number

## To access the next or preceding page: Press PROGR + ((E)) or PROGR - ((E))

Whilst you are viewing teletext, press ( Press it again to cancel teletext mode. To superimpose teletext on to the TV:

## To freeze a teletext page:

Some teletext pages have sub-pages which follow on automatically. To stop them, press ← / ←. Press it again to cancel the freeze.

## To reveal concealed information (e.g. answer to a quiz):

Press 🖽/②. Press it again to conceal the information.

### To Switch Off Teletext:

Press O

### Fastext

the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access Fastext service lets you access pages with one button push.

While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the corresponding page.

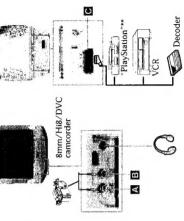
## **Connecting Optional Equipment**

Using the following instructions, you can connect a wide range of optional equipment to your TV set. (Connecting cables are not supplied).

### Connecting a VCR:

aerial and VCR" of this instruction To connect a VCR, please refer to to manual programme, see page lead, tune in the VCR test signal connect your VCR using a scart Preset" option. (for details how lead. If you do not have a scart to TV programme number "0". by using "Manual Programme manual. We recommend you the section "Connecting the

instruction manual to find out how to find the output channel Also refer to your VCR of your VCR. 11, step a).



if you have connected a decoder to a VCR which supports Smartlink feature:

GB

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder" option, select "On" (by using  $\Psi$  or  $\Phi$ ) to each scrambled channel.

"This option is only available depending the country you have selected in the "Country" menu

- \*\* "PlayStation" is a product of Sony Computer Entertainment, Inc.
- \* "PlayStation" is a trademark of Sony Computer Entertainment, Inc.

## **Using Optional Equipment**

- 1 Connect your equipment to the designated TV socket, as indicated above.
- To watch the picture of the connected equipment, press the 🕙 button repeatedly until the correct input symbol appears on the screen.

### Input Signals Symbol

- Audio / video input signal through the Scart connector C ā
- if a RGB source has been connected. Φ
- Video input signal through the phono socket  $\underline{\mathbf{A}}$  and Audio input signal through  $\underline{\mathbf{B}}$  .  $\tilde{\varphi}$
- Switch on the connected equipment.
- 4 Press O button on the remote control to return to the normal TV picture.

## 16 Additional Information

Teletext | 15

## Specifications

Sound Output: • KV-21LT1K:	1 x 8 W (music power) 1 x 4 W (RMS Mono)	1 x 3 W (RMS Mono)	Power Consumption:  • KV-21LTIK: 55 W	• KV-14L11K: 42 W Standby Power Consumption:	≤ 0.55 W  Dimensions (w x h x d):	• KV-21LT1K: Approx. 514 x 478 x 487 mm. • KV-14LT1K: Approx. 393 x 358 x 415 mm.
<b>TV system:</b> B/G/H, D/K	<b>Colour system:</b> PAL, SECAM NTSC 3.58, 4.43 (only Video In)	Channel Coverage:		HYPER:   S21-S41 D/K: R1-R12, R21-R69	Picture Tube: Flat Display FD Trinitron	Rear Terminals →1/←321-pin scart connector

Rear Terminals

(3-1/-6) 21-pin scart connector
(CENELEC standard)
including audio/video
input, RGB input, TV audio/
video output.

Weight:
• KV-21LT1K: Approx. 24 Kg.
• KV-14LT1K: Approx. 11.5 Kg.

Front Terminals
①2 video input – phono jack
②2 audio input – phono jack
① headphones jack

Accessories supplied:
1 Remote Control (RM-887)
2 Batteries (IEC designated)
1 Aerial (only for KV-14LT1K)

Other features:

Teletext, Fastext, TOPtext
 Sleep Timer
 Wake UP Timer
 Smartlink (direct link between your TV set and a compatible VCR. For more information on Smartlink, please refer to the Instruction Manual of your VCR).
 TV system Autodetection.

Design and specifications are subject to change without notice.

Ecological Paper- Totally Chlorine Free

## **Troubleshooting**

Here are some simple solutions to the problems which may affect the picture and sound.

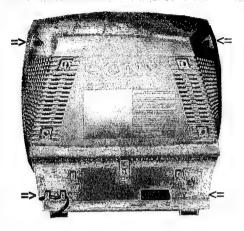
Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the $\bigcirc$ button on the front of TV lug the TV in and press the $\bigcirc$ button on the standby indicator $\bigcirc$ is on, press $ V^{\bigcirc}\rangle$ button on the remote control.
Poor or no picture (screen is dark). but good sound.	Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings.
No picture or no menu information from the equipment connected to the Scart connector.	Check that the optional equipment is on and press the     Dutton repeatedly on the remote control until the correct input symbol is displayed on the screen.
Good picture, no sound.	• Press the ∠ +/- button on the remote control.
No colour on colour programmes.	<ul> <li>Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings.</li> </ul>
Distorted picture when changing programmes or selecting teletext.	<ul> <li>Turn off any equipment connected to the Scart connector on the rear of the TV.</li> </ul>
Picture slanted (only for KV-21LT1K)	<ul> <li>Using the menu system, select the "Picture Rotation" option in the "Advanced Features" menu to correct the picture slant.</li> </ul>
Nolsy picture when viewing a TV channel.	Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better pitcure reception.     Using the menu system, select the "Noise Reduction" option in the "Advanced Features" menu and select "On" to reduce the noise in the picture.
Remote control does not function.	• Replace the batteries.
The standby indicator <b>©</b> on the TV flashes even though the "On Timer"	Contact to your nearest Sony service centre.

GB

In case of problems, have your TV serviced by qualified personnel. Never open the casing yourself.

### **SECTION 2 DISASSEMBLY**

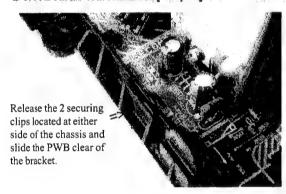
### 2-1. Rear Cover Removal



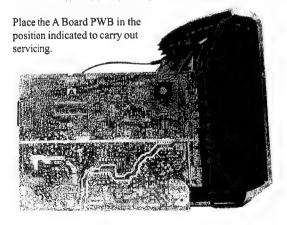
Release the mains power cable from its securing posts. Remove the rear cover fixing screws indicated. Pull the rear cover away from the front beznet until clear of chassis.

Note: Use a cross-head screwdriver with a blade length of at least 200mm.

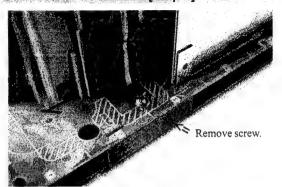
### 2-3. A Board PWB Removal [ Step 2 ]

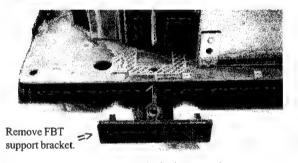


### 2-4. Service Position

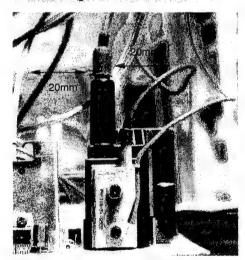


### 2-2. A Board PWB Removal [ Step 1 ]





### 2-5. Wire Dressing

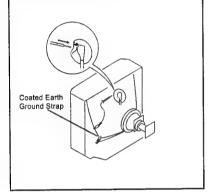


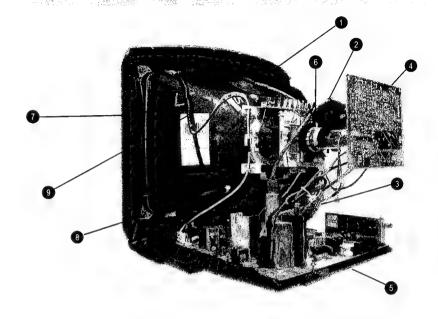
Ensure that all wires do not touch heat-sinks and high temperature hot spots. All wires must be kept at a minimum distance of 20mm away from the EHT lead.

### 2-6. Picture Tube Removal

### WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

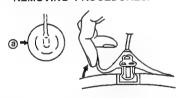




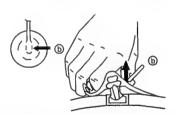
- 1. Discharge the anode of the CRT and remove the anode cap.
- 2. Release the EHT lead from its CRT support bracket.
- Unplug all interconnecting leads from the Deflection yoke, degaussing coils and CRT grounding strap.
- 4. Remove the C Board from the CRT.
- 5. Remove the chassis assembly.
- 6. Loosen the Deflection yoke fixing screw and remove.
- 7. Place the set with the CRT face down on a cushion.
- Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
- Remove the Degaussing Coils.
   Remove the CRT grounding strap and spring tentioners.
   [Take care not to handle the CRT by the neck.]

### Removal of the Anode-Cap

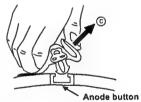
\* REMOVING PROCEDURES.



1) Turn up one side of the rubber cap in the direction indicated by the arrow (a)



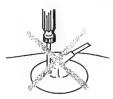
(2) Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)

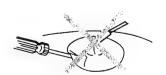


(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

### How to handle the Anode-Cap

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





### **SECTION 3 SET-UP ADJUSTMENTS**

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast ...... 80% [or remote control normal]

Brightness ...... 50%

### Carry out the adjustments in the following order:

3-1. Beam Landing.

3-2. Convergence.

3-3. Focus.

3-4. White Balance.

Note: Test equipment required.

1. Color bar/pattern generator.

2. Degausser.

3. Oscilloscope.

4. Digital multimeter.

### Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

### 3-1. Beam Landing

- Input an all white signal from the pattern generator. Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- Move the deflection yoke forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 - 3-3].
- Move the deflection yoke backwards and adjust so that the entire screen becomes Red. [See Fig. 3-1]
- Switch the raster signal to Blue, then to Green and verify the condition.
- When the position of the deflection yoke has been determined, fasten the deflection yoke with the screws.
- If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

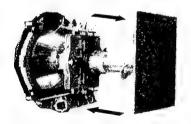


Fig. 3-1.

### Caution:

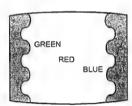
High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.







Fig. 3-3.



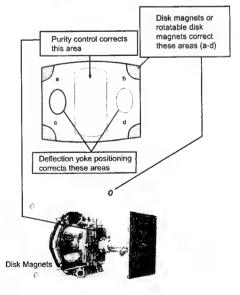


Fig.3-4

### 3-2. Convergence

### Preparation:

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- · Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

### Horizontal and Vertical Static Convergence

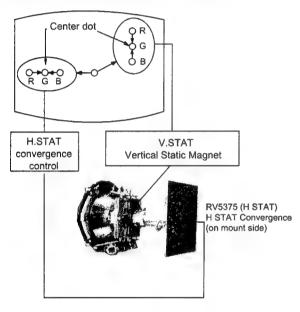
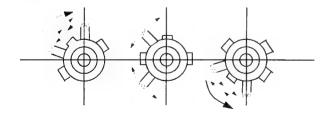


Fig.3-5

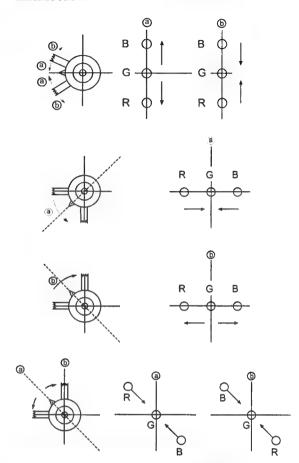
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below.

[In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

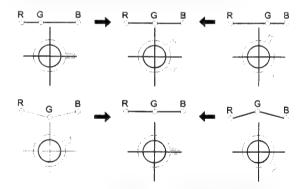
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



 If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.



### Operation of the BMC (Hexapole) magnet.



The movement of the magnets interact with each other and so the respective dot position should be monitored while carrying out this adjustment.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen

(by moving the dots in the horizontal direction).

### Geometry Adjustment.

### Preparation:

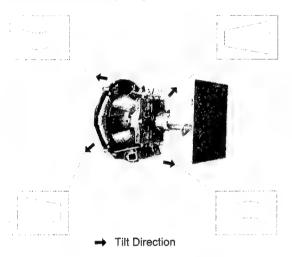
Before starting this adjustment, adjust the horizontal and vertical static convergence.

- 1. Remove the deflection yoke spacer.
- Tilt the deflection yoke as indicated in the figure below and optimise the geometry.

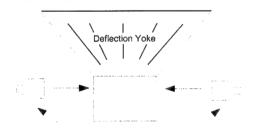
Tilting the DY Up and Down will balance the upper and lower pin adjustment.

Tilting the DY Left and Right will balance the H-Trap adjustment.

3. Re-install the deflection yoke spacer.

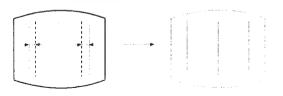


### HTIL Adjustment



TLH pieces

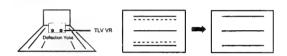
HTIL correction can be performed by adding a TLH correction assembly to the Deflection yoke.



### YCH Adjustment

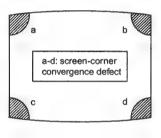


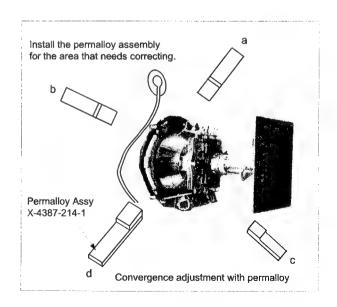
### TLV Adjustment



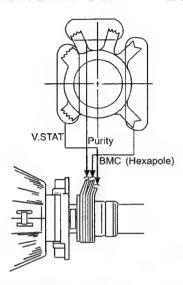
### Screen Corner Convergence

If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



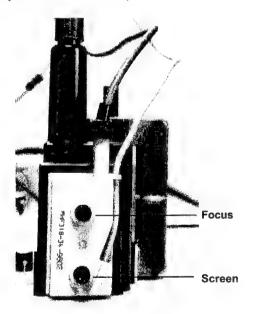


### Layout of each control



### 3-3. Focus Adjustment

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer
  to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the
  magenta-ring appears on the screen. In this case, adjust the
  focus to optimize the screen uniformly.



### 3-4. Screen (G2), White Balance

### [Adjustment in the service mode using the remote commander]

### G2 adjustment

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control [SCREEN] located on the Flyback Transformer to the point just before the flyback return lines disappear.

### White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- Enter into the 'Service Mode' by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
- Select 'Service' from the on screen menu display and press the right arrow button on the remote commander.
- 4. The 'Service' menu will appear on the screen. [See Page 18]
- 5. Set the 'Contrast' to MAX.
- 6. Set the 'R-Drive' to 25.
- Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the 'Contrast' to MIN.
- Adjust the 'G-Cutoff', and the 'R-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 11. Press the 'OK' button to write the data for each item.

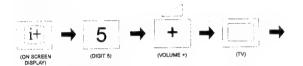
### **SECTION 4** CIRCUIT ADJUSTMENTS

### 4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied Remote Commander RM-887(14LT1) or RM-889(14LM1).

### How to enter into the Service Mode

- 1. Turn on the main power switch and enter into the stand-by mode.
- Press the following sequence of buttons on the Remote Commander.



- 'TT—' will appear in the upper right corner of the screen. Other status information will also be displayed.
- Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry
Service
Design
Status
IF adjust
Error Menu
FE-2 Mono v1.12
Factory data 00h 00h

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 5. Press the right arrow button to enter into the required menu item.
- 6. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

### Note:

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

SERVICE		
Offset-R	(0, 15)	Adj
Offset-G	(0, 15)	Adj
R-Drive	(0, 63)	25
G-Drive	(0, 63)	Adj
B-Drive	(0, 63)	Adj
Peak-Freq	(0, 3)	0
Luma-Delay	(0, 15)	8
SC0	(0, 3)	3
White-Peak	(0, 15)	15
Subcont	(0, 15)	Adj
Subright	(0, 63)	Adj
Subcol	(0, 63)	Adj
Subsharp	(0, 63)	31
Br OSD	(0, 15)	11
Br TXT	(0, 15)	8

GEOMETRY		
Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Linearity V-Size S-Correction	(0, 15) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63)	13 9 Adj Adj Adj Adj Adj Adj Adj Adj
V-Centre	(0, 63)	Adj 25
V-Zoom	(0, 63)	20

ERROR MENU			
E02	OCP	(0, 255)	0
E03 E04	OVP N/A VSYNC	(0, 255) (0, 255)	0
E05 E06	IKR IIC	(0, 255) (0, 255)	0
E07	NVM	(0, 255)	0
E08 E09	JUNGLE TUNER	(0, 255) (0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	V8	(0, 255)	U
WORKING			
HOURS			0
MINUTES			0

IF ADJUST		
AGC Adjust	(0, 255)	0
Automute	(0, 255)	1
Audio Gain	(0, 255)	0
L Gating	(0, 255)	1

### Sub Brightness Adjustment

- 1. Input a Monoscope pattern.
- 2. Press 'TEST' 'TEST' 13 on the Remote Commander.
- Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

### Sub Contrast Adjustment

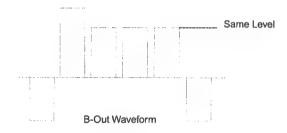
- Input s video signal that contains a small 100% white area on a black background.
- Connect an digital voltmeter to Pin 10 of J701 [C Board].
- Adjust the Sub-Contrast ['TTll'] to obtain a voltage of 95+0,-5V.

### Sub Colour Adjustment

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 3 of CN504 [A Board].
- 3. Enter into the 'Service' service menu.
- Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.

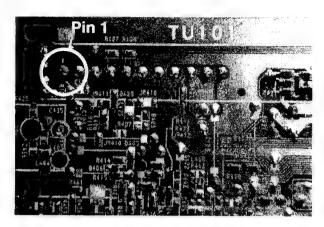
### Note:

Ensure that no signal is applied to the Antenna socket while carrying out the following IF adjustments.



### **Tuner AGC Adjustment**

- 1. Set the "AGC adjust" register value:
  - For destination France set the value to 6.
  - All other destinations set the value to 0.
- 2. Receive a signal of 64dBuV/75 ohm terminated [62dBuV/75] ohms for B model] via the tuner antenna socket.
- Connect a voltmeter to pin1 of TU101 [print side of A Board] or to the AGC pin of CN001 [mount side of A Board].
- 4. Confirm that the AGC voltage is 3.5 volts +/- 0.3 volts.
- 5. If adjustment is required, enter into the 'Test Menu'.
- 6. Select the 'AGC Adjust' menu item.
- Adjust the data using the left and right arrow buttons on the Remote Commander to obtain a voltage of 3.5V +/- 0.3V.

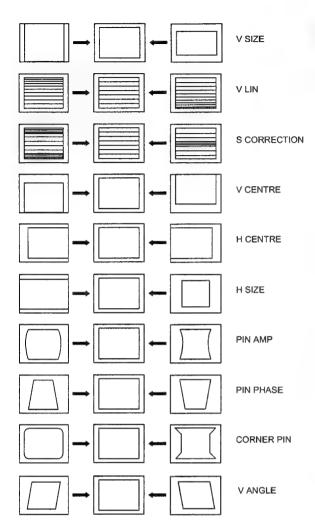


[ Print side of A board ]

### Deflection System Adjustment

- 1. Enter into the 'Geometry' service menu.
- Select and adjust each item in order to obtain the optimum image.

GEOMETRY		
Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Linearity V-Size S-Correction V-Centre V-Zoom	(0, 15) (0, 63) (0, 63)	13 9 Adj Adj Adj Adj Adj Adj Adj Adj 25

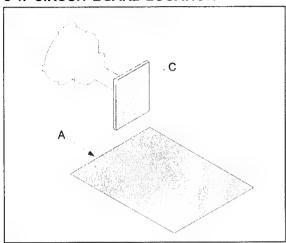


### 4-2. TEST MODE 2:

Is available by pressing the 'TEST' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Picture Rotation Test
16	Picture level 50%
19	Toggle Factory Mode
21	Destination ADE
22	Destination BL
23	Destination ADE
24	Destination U
25	Destination ADE
26	Destination BL
27	Destination KR
28	Destination KR
31	Auto Sutoff Disable/Enable
33	Rotation ON/OFF
35	No Function
36	No Function
38	Enter G2 Adjustment
41	Re-initialise NVM (Prog 59)
42	Re-initialise geometry (Prog 59)
48	Set NVM as non virgin (Prog 59)
49	Set NVM as virgin (Prog 59)
61	Auto AGC adjustment
63	No Function
64	Enable/disable RGB priority
65	RGB auto-detect enable/disable
66	On timer enable/disable
67	Manual AGC adjustment
68	Enable/disable X26 countermeasure (N problem)
71	Force PAL video (Factory Use Only)
72	Un-force PAL(restore normal video condition)
87	Local keys test
88	No Function
89	Enable/disable watchdog
99	Display Error and Working Time menu

### 5-1. CIRCUIT BOARD LOCATION



### 5-3. SCHEMATIC DIAGRAMS AND **PRINTED WIRING BOARDS**

### Note:

- All capacitors are in µF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm

Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms. k = 1000 ohms, M = 1000,000 ohms

: nonflammable resistor.

: fusible resistor.

 $\triangle$ : internal component.

: panel designation or adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

All voltages are in Volts.
Readings are taken with a 10Mohm digital mutimeter.

Readings are taken with a color bar input signal.

Voltage variations may be noted due to normal production tolerences.

: B + bus.

: B - bus.

: RF signal path.

: earth - ground.

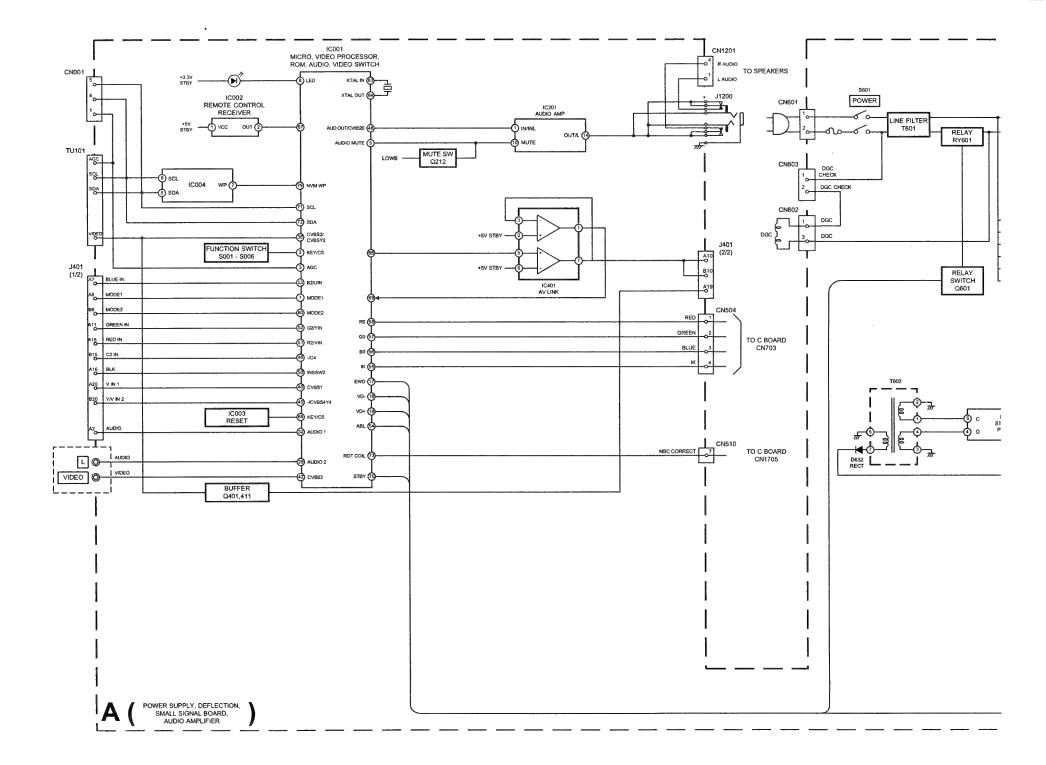
: earth - chassis.

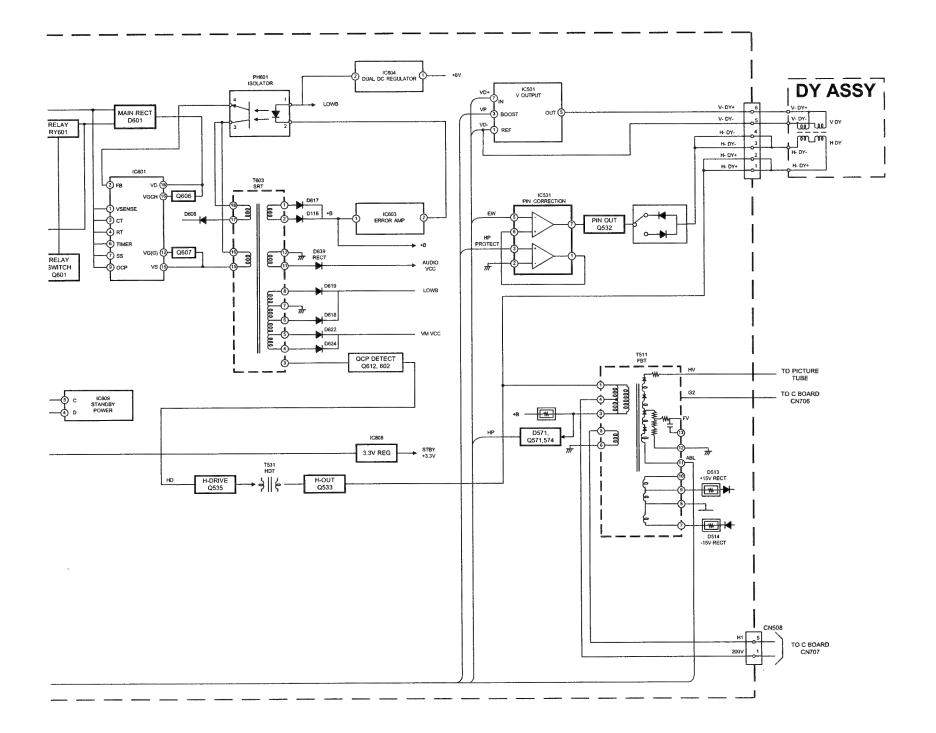
### Reference Information

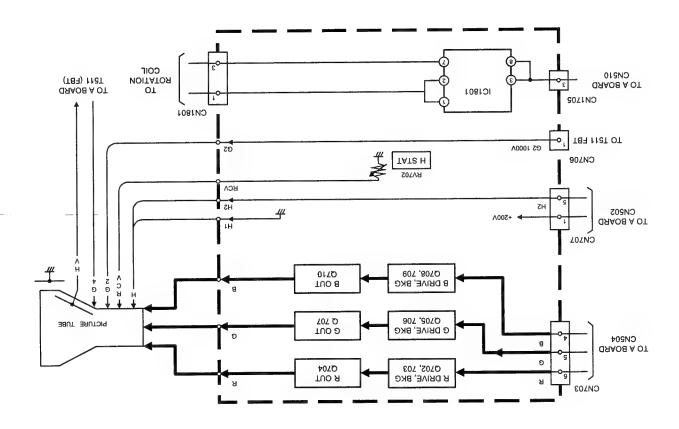
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	<u></u>	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and marked  $\Delta$  are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque  $\Delta$  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

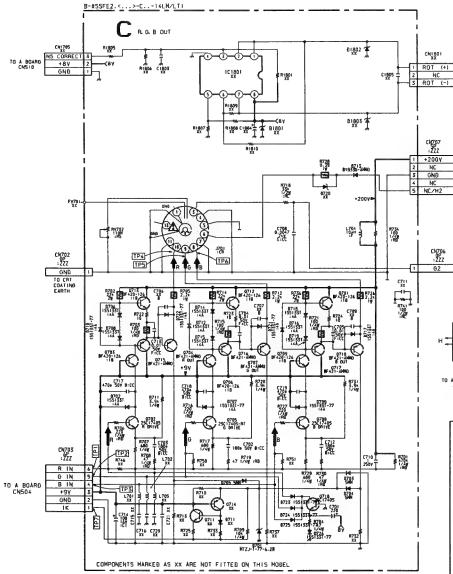


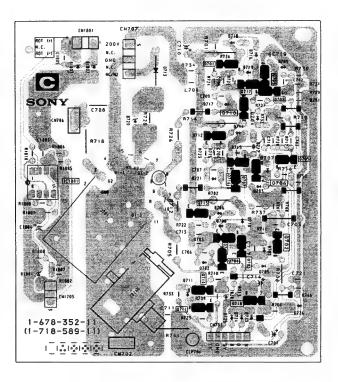




### C [R, G, B OUT]

### [C PRINTED WIRING BOARD]





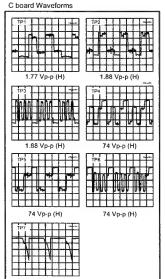
1.76 Vp-p (H)

KG KB G2

CV KR GI G4 HV TO A BOARD HY (T511) --

TO COATING EARTH

TO A BOARD CNS08



V90 A34LRG70

### A board Waveforms 1.88 Vp-p (H) 1.84 Vp-p (H) 1.86 Vp-p (H) 6.0 Vp-p (H) 49.8 Vp-p (V) 1.83 Vp-p (V) 5.4 Vp-p (H) 488 mVp-p (V) 1.06 kVp-p (H) 50.8 Vp-p (V)

### C board Semiconductor Voltage Table

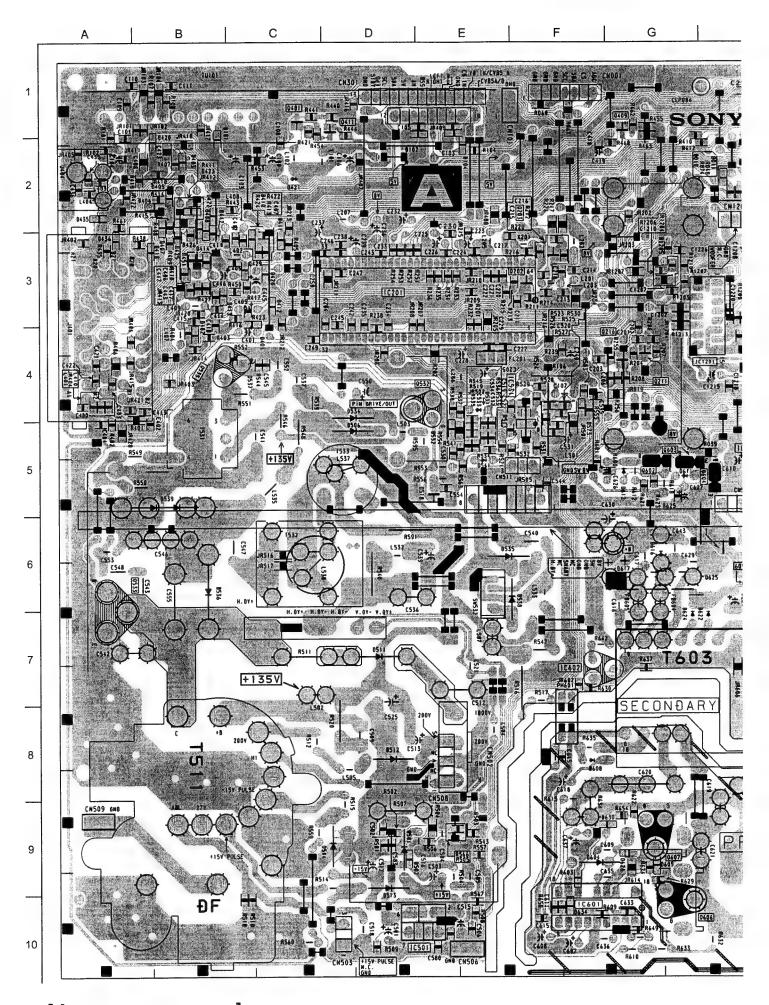
Ref	(0)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q701	124.2	124.8	202	Q706	7.5	8.1	125.0	Q712	125.8	126.4	201.9
Q702	2.3	3.0	7.5	Q707	124.6	125.8	5.5	Q713	133.0	132.4	201.9
Q703	7.5	8.1	131.6	Q708	3.5	2.1	7.5	Q715	132.3	131.5	8.1
Q704	131	132.4	5.2	Q709	7.5	8.1	123.3	Q716	125.8	125.0	8.1
Q705	2.5	3.1	7.5	Q710	123.0	124.3	5.5	Q717	124.2	123.4	8.1

C board IC Voltage Table

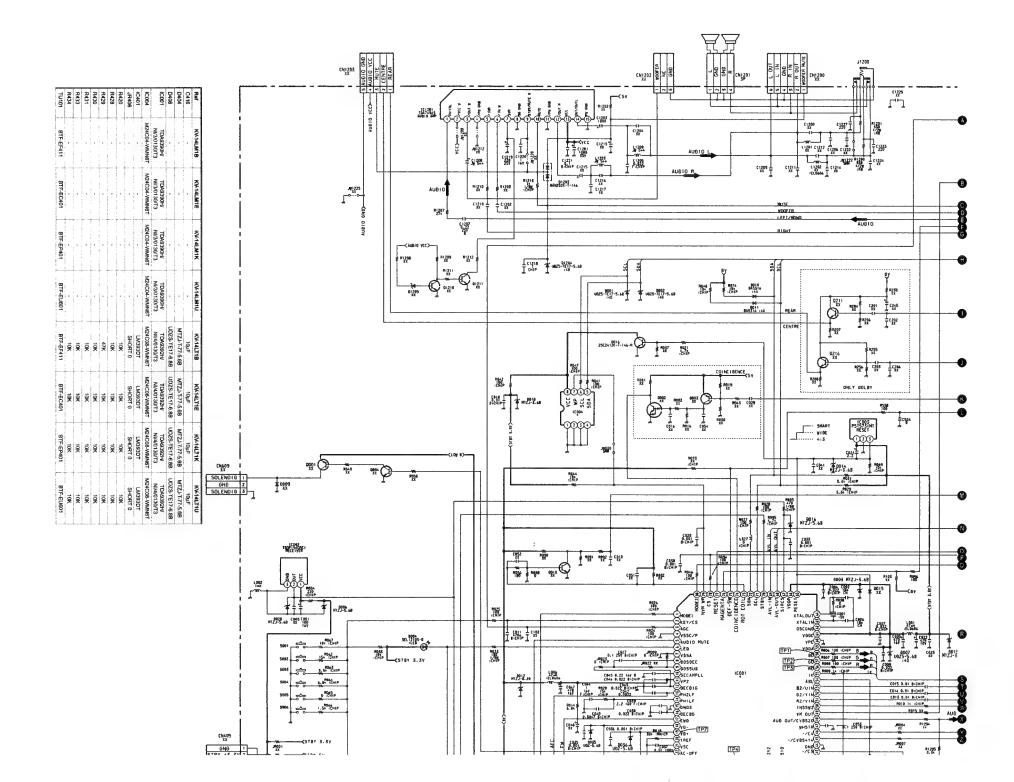
IC Voltage Table						
Ref No	Pin No	Voltage (V)				
	1	1.3				
	2	1.3				
	3	1.4				
IC1801	5	4.1				
	6	4.1				
	7	7.0				
	8	8.0				

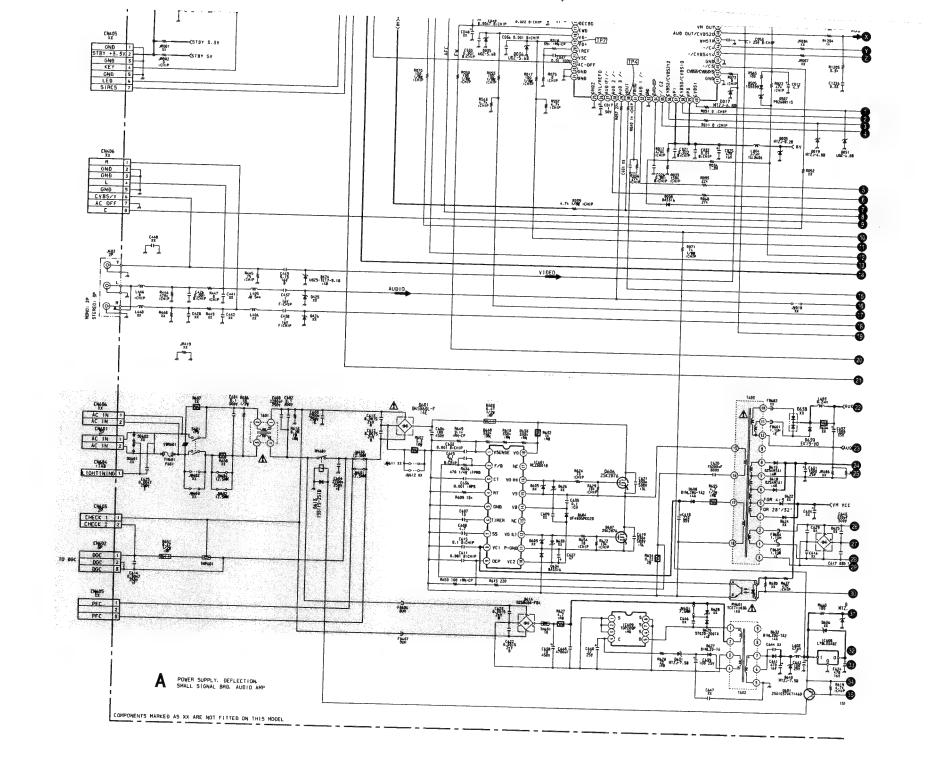
Н Κ |0;0|0;0|0;0|<del>0</del>|0;0| T602 603 1DARY S 601 AC-PUSH SW

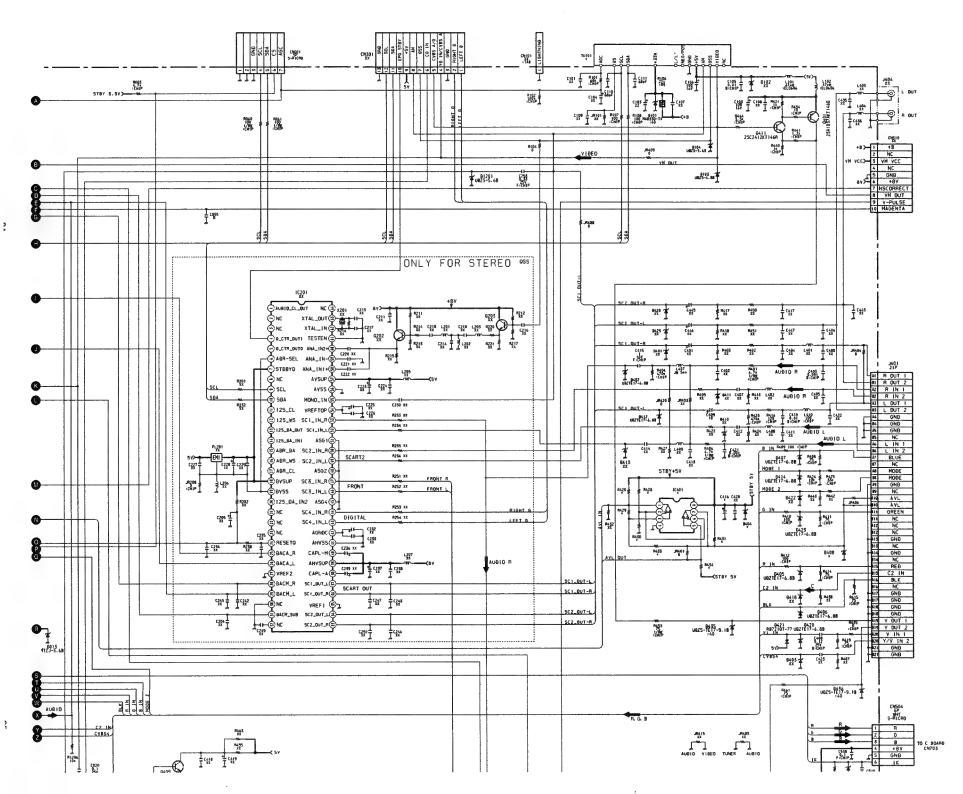
Μ

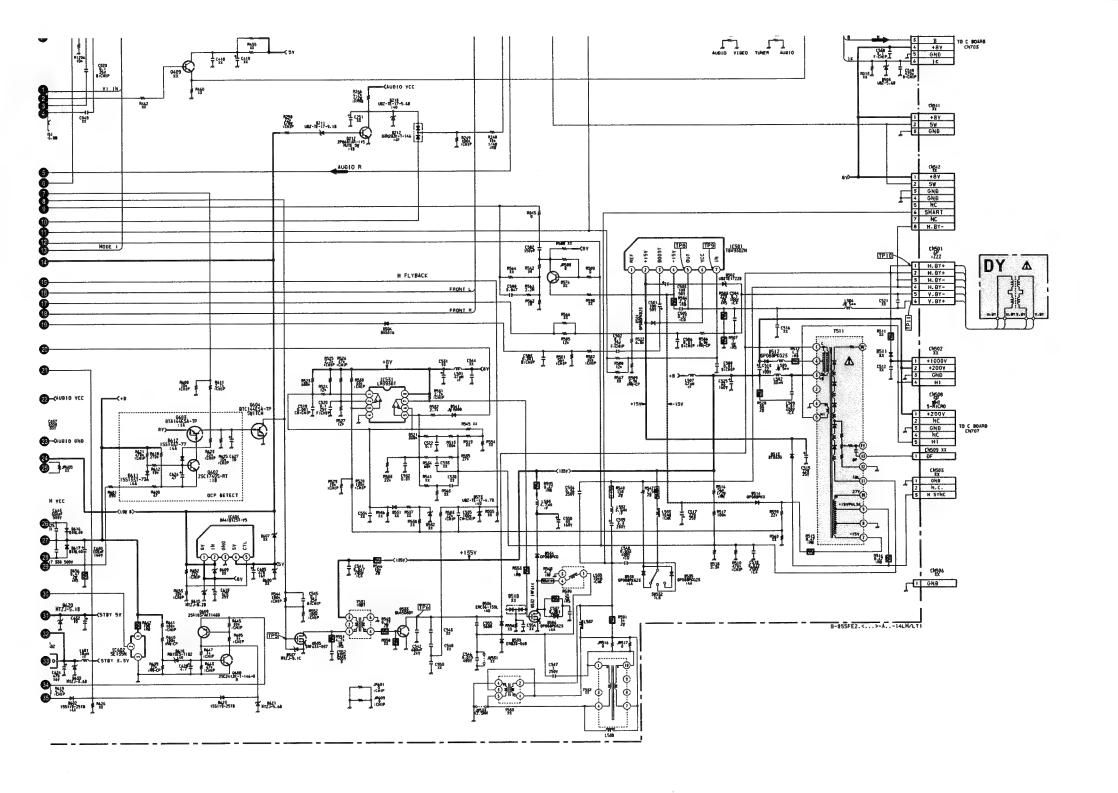


[ A PRINTED WIRING BOARD ]









### A board IC Voltage Table

		IC Volta	ge Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	1	0		67	4.8
	2	3.2		68	0.4
	3	2.9		69	0
	5	0		70	0
	6	2.0		71	0
	8	2.3		72	0
	9	8.0		73	7.1
	10	5.0	IC001	74	5.0
	12	0		75	8.1
	13	0		76	-3.5
	14	4.0		77	0
	16	1.4		78	3.2
	17	1.5		79	3.2
		0	-	80	0
	18	<del> </del>		1	0.3
	19	0		-	<del> </del>
	20	3.8		3	-12.6
	21	3.8	IC501	5	0.2
	22	5.0		6	13.9
	26	0		7	0.3
	28	3.5		1	1.4
	29	3.6		2	2.3
	30	1.9	IC531	3	1.8
	31	0.3		5	2.4
1C001	32	3.6		6	1.6
	34	1.9		7	6.4
	35	1.4	1	1	-80.4
	36	3.9	-	2	-80.5
	38	1.8	-	3	-80.2
	40	3.3	-	5	-80.2 -81.5
	42	3.3	-	6	-81.6
	43	0	-	7	-77.8
	46	0	IC601	9	-81.8
	47	3.6	1	10	-76
	48	2.8	1	11	-81.9
	49	2.3	1	12	-79.4
	50	0.2	1	14	16.5
	51	2.5	1	15	11
	52	2.5	1	16	14.4
	53	2.5	1	18	86.4
	54	2.1		1	11
	55	5.2		3	4.9
	56	3.0	]	5	0
	57	3.1		6	0
	58	3.1	IC1201	7	11.3
	59	3.2	]	9	0.3
	62	0	_	10	0
	63	0		12	0
	64	0	1	14	11.35

### A board Semiconductor Voltage Table

Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q013	0	0.7	0	Q604	0	0	2.5
Q016	0	0	3.3	Q608	0	0	5.6
Q212	0	0.7	0	Q609	5.6	5.6	0
Q401	4.8	4.2	1.8				
Q411	1.1	1.7	4.2	Ref	(8)	(g)	(d)
Q601	5.6	4.8	5.3	Q606	10.9	14.5	86.7
Q602	14.2	5.1	8	Q607	-82.4	-79.9	10.9
Q603	8	8	0	Q535	0	2.5	95.2

### A board Location Table

DIODE		D435	A - 2	D634	F - 10
D001	J - 2	D436	A - 3	D639	1-6
D002	J - 4	D501	D - 9	D640	L-5
D003	J - 2	D502	D-9	D1201	H-1
D004	M - 8	D503	1-1	D1203	1-4
D006	M - 8	D504	H - 2	D1204	H-4
D007	J - 2	D505	J - 1		С
D008	L-1	D506	D - 5	IC001	K - 2
D010	G-2	D507	J - 1	IC002	M - 8
D011	H - 2	D512	D - 8	IC003	1-2
D012	J - 2	D513	D - 9	IC004	K-4
D013	M - 8	D514	C - 9	IC401	1-2
D014	M - 8	D534	D - 4	IC501	D - 10
D016	J - 2	D535	E - 6	IC531	E - 4
D017	L - 1	D536	B - 6	IC601	F - 10
D018	G - 2	D537	C-4	IC602	F-7
D019	L-1	D538	F - 6	IC604	H - 5
D020	M - 8	D539	B - 5	1C608	L-6
D035	L - 2	D573	F - 5	IC609	L-6
D036	L - 2	D601	1 - 9	IC1201	H - 4
D051	K - 1	D602	K - 5	TRAN	SISTOR
D101	B - 1	D604	F-9	Q013	K-3
D103	E-2	D610	J - 5	Q016	1-3
D104	E - 2	D611	G - 5	Q212	1 - 5
D210	1 - 5	D612	G - 5	Q401	C - 1
D211	1 - 5	D613	J - 6	Q411	D - 1
D212	1 - 5	D614	K - 8	Q532	D - 4
D402	B - 2	D615	H - 5	Q533	A - 6
D404	1 - 2	D616	G - 6	Q535	B - 4
D405	B - 2	D617	G - 6	Q601	K - 5
D406	B - 2	D618	H - 6	Q602	G - 5
D407	B - 3	D619	H - 6	Q603	G - 5
D408	B - 2	D620	M - 5	Q604	G - 5
D412	C - 3	D621	J - 5	Q606	G - 10
D414	B - 3	D623	J - 5	Q607	G-9
D420	B - 1	D627	K - 7	Q608	J-6
D421	C - 2	D631	L - 6	Q609	J-6
D423	B - 2	D632	L - 5		
D424	M - 2	D633	L-5		



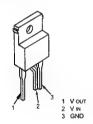
NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shock during inspection or repair.

### 5-4. SEMICONDUCTORS

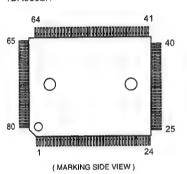
LM393DT TDA2822M TEA2124



SE-135N SE135N-LF12



TDA9392H



TOP209P



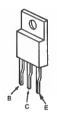
BF421-AMMO 2SA1091-O



DTA144ESA DTA144ESA-TP DTC114EKA DTC114EKA-T146 DTC143TKA-T146 DTC144EKA-T-146R 2SA1037K-T-146-R R2SA1162-G 2SA1037K-T-146-QR 2SD601A-QTX 2SC1623-L5-L6 2SC2412K-QR 2SC2412K-T-146-R



IRF614-LF



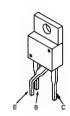
2SA933AS-QRT 2SAG33ASQT 2SA933AS-RT 2SC1740S-RT



2SC2785-HFE



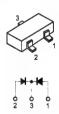
2SK2251-01-F19



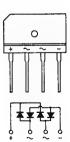
AK04-V1 AU-01Z-V1 BYD33G BYD33G-AMMO DINL20-U-TA2 DINL40-U-TR2 ERB44-06TP1 EGP20G EG-1Z-V1 EL1Z ERD28-06S ERD28-06S ERC06-15SL FMN-G12S GP08DPKG23 RG1CLF-B1 RGP10GPKG23 RU-3AM RU3YX-LF-C4 RU3YX-V1 RU-4AM-T3 1SS292T-77



DAN202K DAN202K-T146



D4SB60L-F



ERA81-004TP1 MTZJ-T-77-15B ERA83-006 MTZJ-T-77-33A MTZJ-3.6A MTZJ-T-77-2.2A MTZJ-33C MTZJ-7.5B RD3.9ES-B2 HZS9.INBZ MTZJ-T-77-3.6B RD5.6ESB2 MTZJ-T-77-5.6B RD6.8ES-B2 MTZJ-T-77-5.6C RD7.5ESB2 RD9.1ES-B3 MTZJ-T-77-6.8A MTZJ-T-77-6.8C MTZJ-T-77-8.2B RD10ESB2 RD15ESB2 1SS119-25TD MTZJ-T-77-7.5B 1SS133T-77 MTZJ-T-77-9.1A MTZJ-T-77-9.1C MTZJ-T-77-10



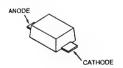
### SLA-570KT3F



1SS355TE-17 RD12SB2 UDZS-TE-17-4.7B UDZS-TE-17-5.6B UDZS-TE-17-6.8B UDZS-TE-17-9.1B UDZ-TE-17-22B

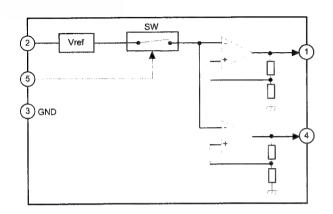


### UF4005PKG23

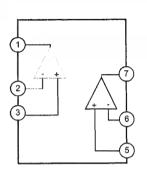


### 5-5 IC BLOCK DIAGRAMS

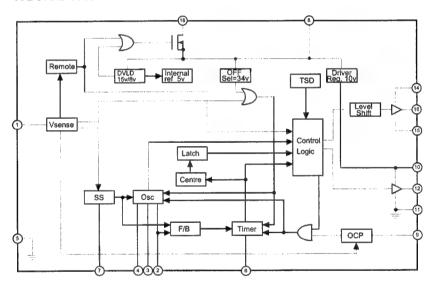
### A BOARD IC604 BA41W12ST



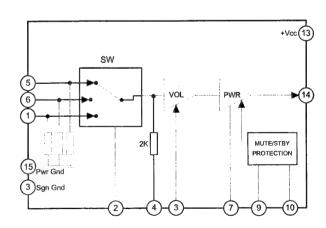
### A BOARD IC401/IC531 LM393TD



### A BOARD IC601 MCZ3001D



### A BOARD IC1201 TDA7494



### SECTION 6 EXPLODED VIEWS

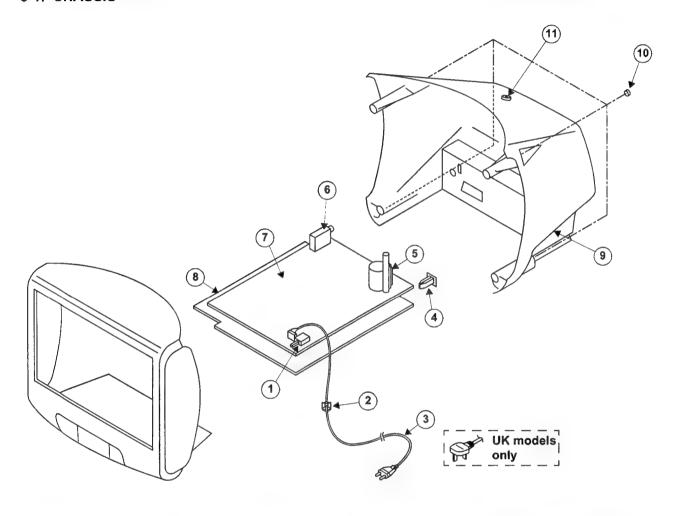
### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

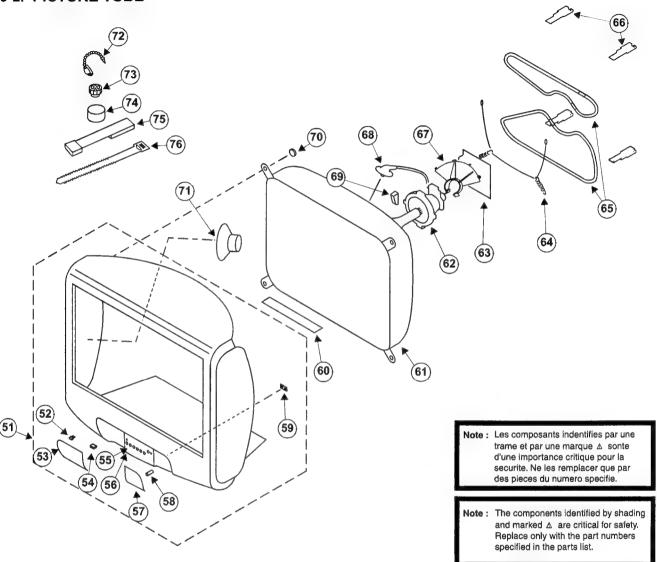
Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

### 6-1. CHASSIS



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1 A	1-571-433-21	SWITTER, PUSE IAC	POWER)	7	*A-1632-901-A	A BOARD, COMPLETE	(KV-14LM1B)
2	*4-202-531-01	AC CORD LOCK (SC)			*A-1632-891-A	A BOARD, COMPLETE	(KV-14LM1E)
3 Д	1-765-286-14	(AORE ROMER (RIE)	41M1B/141M1E/141M1R		*A-1632-902-A	A BOARD, COMPLETE	(KV-14LM1K)
terres de la	Acceptance of the second	NAME OF THE PARTY	adrib/ladrie/ladrik)		*A-1632-903-A	A BOARD, COMPLETE	(KV-14LM1U)
٠. Δ			R! (KV-141M1B/141T1B/		*A-1632-895-A	A BOARD, COMPLETE	(KV-14LT1B)
P. S. B. B. Z.			KV-141M10/141T10		*A-1632-886-A	A BOARD, COMPLETE	(KV-14LT1E)
4	*4-204-517-02	SUPPORT, FBT (KV-	14LM1/14LT1B/14LT1E)		*A-1632-896-A	A BOARD, COMPLETE	(KV-14LT1K)
	*4-204-517-01	SUPPORT, FBT (KV-	14LT1K/14LT1U)		*A-1632-897-A	A BOARD, COMPLETE	(KV-14LT1U)
5 A	1-453-347-11	TRANSFORMER ASSY	FLYBACK (NX-1747//U2A4)	В	*4-204-143-02	BRACKET, MAIN	
6	8-598-535-00	FRONTEND BTF-EF41	1 (KV-14LM1B/14LT1B)	9	4-205-378-11	REAR COVER (KV-14)	LM1)
	8-598-531-00	FRONTEND BTF-EC40	1 (KV-14LM1E/14LT1E)		4-205-378-01	REAR COVER (KV-14)	LT1)
	8-598-537-00	FRONTEND BTF-EP40	1 (KV-14LM1K/14LT1K)	10	7-685-663-79	SCREW +BVTP 4X16	TYPE 2 IT-3
	8-598-527-00	FRONTEND BTF-EU60	1 (KV-14LM1U/14LT1U)	11	4-203-090-01	TERMINAL ANTENNA	

### 6-2. PICTURE TUBE



REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
51	X-4200-589-1	BEZNET ASSY	(KV-14LM1)	52, 55-59	63	*A-1632-885-A	C BOARD, COMPLETE	
	X-4200-588-1	BEZNET ASSY	(KV-14LT1)	52-59	64	4-369-318-21	SPRING, TENSION	
52	4-047-464-01	CATCHER, PUSH			65 A	and workers	COME DEGAUSSING	
53	4-205-372-01	DOOR CONTROL	(KV-14LT1)		66	*4-205-377-01	DGC HOLDER	
54	4-205-373-01	SHAFT DOOR	(KV-14LT1)		67	*4-203-097-01	HOLDER, HV	
55	4-205-376-01	MULTI BUTTON			68 A	145/05007618	CAP ASSY, HIGH VO	TAGE .
56	4-205-550-01	COVER MULTI B	UTTON		69	4-074-601-01	SPACER, DY	
57	4-205-380-01	BUTTON, POWER	(KV-14LM1)		70	4-365-808-01	SCREW (5), TAPPING	3
	4-205-374-01	BUTTON, POWER	(KV-14LT1)		71	1-529-711-11	SPEAKER, (8CM)	
58	4-204-426-01	SPRING			72	4-308-870-00	CLIP, LEAD WIRE	
59	4-205-375-01	GUIDE, LIGHT			73	1-452-094-00	MAGNET, ROTATABLE	DISK; 15MM Ø
60	4-203-128-01	SHEET, BLOTTI	NG		74	1-425-032-00	MAGNET, DISK; 10MM	í Ø
61 A	8-735-570-05	PICTURE TUBE	(A34LRG70X)	0	75	X-4387-214-1	PERMALLOY ASSY, CO	RRECTION
62 A	8-451-401-21	DEFLECTION YO	KE (Y14RSA-L	), and the second	76	3-701-007-00	BAND, BINDING	

### SECTION 7 ELECTRICAL PARTS LIST

### PARTS LISTING TABLE OF CONTENTS

		Page
C BOARD COMPLETE Parts List :		43
A BOARD COMMON Parts List:	Parts common to all models listed in this manual	44
A BOARD VARIANT Parts List:	Parts that belong only to the model specified	
<u>Model</u>		
KV-14LM1		50
KV-14LT1		50
MISCELLANEOUS:		51
ACCESSORIES AND PACKAGING	MATERIALS :	51

Note: Refer to the designated variant parts list when seeking a part indicated by an asterisk (\*)

Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

The components identified by shading and marked ∆ are critical for safety Replace only with the part number specified.

	•
•	•

REF. NO.	PART.NO	DESCRIP	TION	REMARK	REF. NO.	PART.NO	DESCRIPTION	1		REMARK	
*A-16	32-885-A C	Board, C	omplete -		D726	8-719-991-33	DIODE 1SS133T	-77			
	< CAPACIT	OR >				< SOCKET	>				
C701	1-126-934-11	ELECT	220UF	20.00% 16V	тоц	A 1-251-595-11	SOCKET; CRI		<b>E</b> .		
C702	1-102-109-00		180PF	10.00% 50V							
C703	1-102-109-00		180PF	10.00% 50V		< COIL >					
C704	1-101-004-00		0.01UF	50V		1 414 102 41	THRUSTON	4 01111			
C705	1-101-004-00	CERAMIC	0.01UF	50V	L704	1-414-183-41	INDUCTOR	10UH			
C708	1-162-114-00	CERAMIC	0.0047UF	2KV		< TRANSI	STOR >				
C710	1-107-957-11	ELECT	10F	20.00% 250V							
C712	1-102-109-00	CERAMIC	180PF	10.00% 50V	Q701	8-729-046-28	TRANSISTOR BE	420-12	6		
C713	1-101-004-00	CERAMIC	0.01UF	50V	Q702	8-729-119-78	TRANSISTOR 25	C1740S	-RT		
C714	1-104-665-11	ELECT	100UF	20.00% 16V	Q703	8-729-046-28	TRANSISTOR BE	420-12	6		
					Q704	8-729-200-17	TRANSISTOR BI	421-AM	MO		
C717	1-102-114-00	CERAMIC	470PF	10.00% 50V	Q705	8-729-119-78	TRANSISTOR 25	C1740S	-RT		
C718	1-102-114-00		470PF	10.00% 50V							
C719	1-102-114-00		470PF	10.00% 50V	Q706	8-729-046-28	TRANSISTOR B	420-12	6		
					Q707	8-729-200-17	TRANSISTOR B	7421-AM	MO		
	< CONNECT	OR >			Q708	8-729-119-78	TRANSISTOR 2	SC1740S	-RT		
					Q709	8-729-046-28	TRANSISTOR B	F420-12	6		
CN702	1-695-915-11	TAB (CONT)	ACT)		0710	8-729-200-17	TRANSISTOR B	F421-AM	MO		
CN703	*1-564-509-11		•								
CN706	1-695-915-11				0712	8-729-046-28	TRANSISTOR B	F420-12	6		
CN707	*1-564-508-11				0713		TRANSISTOR B				
CMIUI	-1-204-200-11	rhoo, com	ABOTON 31		0715		TRANSISTOR B				
	< DIODE >				Q716	-	TRANSISTOR B				
	C DIODE >				0717		TRANSISTOR B				
D701	8-719-109-93										
D702	8-719-991-33	DIODE 1SS	133T-77		Q718	8-729-119-78	TRANSISTOR 2	SC1740S	-RT		
D703	1-535-303-00	LEAD, JUM	PER (5.0MM)								
D704	1-535-303-00	LEAD, JUM	PER (5.0MM)			< RESIST	OR >				
D705	1-535-303-00	LEAD, JUM	PER (5.0MM)								
					R701	1-247-895-91		470K		1/4W	
D706	8-719-991-33				R702		METAL OXIDE	22K	5∜	2W	
D707	8-719-991-33	DIODE 188	133T-77		R703	1-249-405-11		100	5%	1/4W	
D708	8-719-991-33	DIODE 1SS	133T-77		R704	1-249-401-11		47	5%	1/4W	
D709	8-719-991-33	DIODE 1SS	133 <b>T-7</b> 7		R705	1-215-871-11	METAL OXIDE	2.2K	5%	1W	
D710	8-719-991-33	DIODE 1SS	133T-77								
					R706	1-247-815-91		220	5%	1/4W	
D712	8-719-991-33	DIODE 1SS	133T-77		R707	1-247-827-91	CARBON	680	5%	1/4W	
D713	8-719-950-57	DIODE BYD	33G-AMMO		R708	1-249-401-11	CARBON	47	5%	1/4W	
D714	8-719-991-33	DIODE 1SS	133T-77		R709	1-249-429-11	CARBON	10K	5%	1/4W	
D715	8-719-991-33	DIODE 1SS	133T-77		R711	1-247-845-91	CARBON	3.9K	5%	1/4W	
D716	8-719-991-33	DIODE 1SS	133 <b>T-77</b>							414	
	A M45 454 55		100m 82		R712		METAL OXIDE	2.2K		1W 2W	
D717	8-719-991-33				R714		METAL OXIDE	22K	5%		
D718	8-719-991-33				R715	1-249-405-11		100	5%	1/4W	
D719	8-719-991-33				R716	1-247-815-91		220	5%	1/4W	
D721	8-719-991-33	DIODE 1SS	133T-77		R717	1-247-827-91	CARBON	680	5%	1/4W	
D722	8-719-991-33	DIODE 1SS	133T-77								
					R718	1-202-814-11		33K		1/2W	
D723	8-719-991-33	DIODE 1SS	133 <b>T-</b> 77		R719	1-249-401-11	CARBON	47	5%	1/4W	
D724	8-719-991-33	DIODE 1SS	133T-77		R720	1-247-845-91	CARBON	3.9K	5%	1/4W	
D725	8-719-991-33				R721	1-249-405-11	CARBON	100	5%	1/4W	
5.20	J .25 552 55										

### CA

EF. NO.	PART.NO	DESCRIPTION		DESCRIPTION REMARK		REF. NO. PART.NO	PART.NO	DESCRIPTIO	N	RE	EMARK	
722	1-249-393-11	CARBON	10	5%	1/4W		C022	1-126-925-11	ELECT	470UF	20.00%	10V
723	1-249-393-11	CARBON	10	5%	1/4W		C024	1-126-961-11	ELECT	2.2UF	20.00%	50V
24	1-249-393-11	CARBON	10	5%	1/4W		C025	1-126-935-11	ELECT	470UF	20.00%	16V
26	1-215-871-11	METAL OXIDE	2.2K	5%	1W		C026	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
27	1-247-815-91	CARBON	220	5%	1/4W		C027	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
28	1-216-344-00	METAL OXIDE	0.39	5%	1W		C028	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
29	1-247-827-91	CARBON	680	5%	1/4W		C030	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
30	1-249-401-11	CARBON	47	5%	1/4W		C032	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
31	1-247-845-91	CARBON	3.9K	5% -	1/4W		C033	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
34	1-247-807-31	CARBON	100	5%	1/4W		C035	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
36	1-215-900-11	METAL OXIDE	22K	5%	2W		C036	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
41	1-202-549-00	SOLID	100	20%	1/2W		C037	1-137-354-11	FILM	0.01UF	5.00%	100V
							C038	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
	< VARIABI	E RESISTOR >					C039		CERAMIC CHIP			16V
702	1-241-656-21	RES, ADJ, MET	ודש , זביי	M 110M			C040	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
.04	1-241-030-21	neo, noo, ne		. LIVII			C042	1-163-213-00	CERAMIC CHIP	0.0022UF	5.00%	50V
'A-16	32-901-A A	Board, Co	mplete	e (KV-	14LM1B)	27.00	C043		CERAMIC CHIP		10.00%	50V
		Board, Co					C044	1-164-346-11	CERAMIC CHIP	1UF		16V
*A-16	32-902-A 🗎 A	Board, Co	mplete	e (KV-	14LM1K)	4	C045		CERAMIC CHIP		10.00%	
		Board, Co				P	C046	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
		Board, Co				ph co	C047	1-126-935-11	ELECT	470UF	20.00%	16V
		Board, Co				0.1			CERAMIC CHIP		10.00%	
'A-16							C053	T-104-004-TT	CERAMIC CRIP	0.105	10.000	234
		Board, Co					C053	1-164-004-11		0	10.000	234
						10.00			SHORT		20.00%	
*A-16		Board, Co					C055	1-216-295-91	SHORT	0		16V
*A-16	32-897-A A	Board, Co					C055 C100	1-216-295-91 1-126-933-11 1-126-965-11	SHORT	0 100UF 22UF	20.00%	16V 50V
*A-16	32-897-A Aard, Common	Board, Cor Parts HOLDER, LED	mplete	e (KV-	14LT1U)		C055 C100 C103	1-216-295-91 1-126-933-11 1-126-965-11	SHORT ELECT ELECT CERAMIC CHIP	0 100UF 22UF	20.00% 20.00%	16V 50V
*A-16	32-897-A A  ard, Common  4-203-258-01  4-374-846-01	Parts  HOLDER, LED COVER, CAPACI	mplete	AP TYPE	14LT1U)		C055 C100 C103	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11	SHORT ELECT ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF	20.00% 20.00% 10.00%	16V 50V 50V 16V
*A-16	32-897-A And Common 4-203-258-01 *4-374-846-01 4-382-854-01	Parts  HOLDER, LED COVER, CAPACI SCREW (M3X8),	mplete	AP TYPE	14LT1U)		C055 C100 C103 C105 C106	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00	SHORT ELECT ELECT CERANIC CHIP ELECT	0 100UF 22UF 0.01UF 100UF 68PF	20.00% 20.00% 10.00% 20.00%	16V 50V 50V 16V 50V
*A-16	32-897-A A  ard, Common  4-203-258-01  4-374-846-01  4-382-854-01  4-382-854-11	Parts  HOLDER, LED COVER, CAPACT SCREW (M3X8), SCREW (M3X10)	mplete	AP TYPE	14LT1U)		C055 C100 C103 C105 C106 C110	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF	20.00% 20.00% 10.00% 20.00% 5.00%	16V 50V 50V 16V 50V
*A-16	32-897-A And Common 4-203-258-01 *4-374-846-01 4-382-854-01	Parts  HOLDER, LED COVER, CAPACT SCREW (M3X8), SCREW (M3X10)	mplete	AP TYPE	14LT1U)		C055 C100 C103 C105 C106 C110 C111	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF	20.00% 20.00% 10.00% 20.00% 5.00%	16V 50V 50V 16V 50V 50V 25V
*A-16	32-897-A  ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT	Parts  HOLDER, LED COVER, CAPACT SCREW (M3X8), SCREW (M3X10)	mplete	AP TYPE W (+) W (+)	14LT1U)		C055 C100 C103 C105 C106 C110 C111 C253	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11	SHORT ELECT ELECT CERANIC CHIP ELECT CERANIC CHIP CERANIC CHIP CERANIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF	20.00% 20.00% 10.00% 20.00% 5.00%	16V 50V 50V 16V 50V 50V 25V
*A-16 A Boa	32-897-A  ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11	Parts  HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10)	TTOR, C., P., SI	AP TYPE W (+) W (+)	14LT1U)		C105 C100 C103 C105 C106 C110 C111 C253	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11	SHORT ELECT  CERANIC CHIP ELECT  CERANIC CHIP CERANIC CHIP CERANIC CHIP CERANIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00%	16V 50V 50V 16V 50V 50V 25V
*A-16 A Boa	32-897-A  ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11	Parts  HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP	mplete  ITOR, C. , P, Si , P, Si  100UF  18PF	AP TYPE W (+) W (+)	14LT1U) 3 3 20.00% 16V 5.00% 50V		C105 C100 C103 C105 C106 C110 C111 C253	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-126-964-11	SHORT ELECT  CERANIC CHIP ELECT  CERANIC CHIP CERANIC CHIP CERANIC CHIP CERANIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 25V 50V
*A-16 A Boa	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR > ELECT CERAMIC CHIP CERAMIC CHIP	TOR, CA, P, SI, P, SI, 100UF 18PF 0.022UI	AP TYPE W (+) W (+) 5 FF 1	20.00% 16V 5.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11 1-164-348-11 1-126-964-11 1-163-021-91	SHORT ELECT  CERAMIC CHIP ELECT  CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF	20.00% 20.00% 10.00% 20.00% 5.00% 5.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 25V 50V
*A-16 A Boa 01 02 04 05	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-037-11  1-126-935-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT	MPDIETOR, C., P, SI 100UF 18PF 0.022UI 470UF	AP TYPE W (+) W (+) 2 5 F 1	14LT1U) 3 3 20.00% 16V 5.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11 1-164-348-11 1-126-964-11 1-163-021-91	SHORT ELECT  CERAMIC CHIP ELECT  CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF	20.00% 20.00% 10.00% 20.00% 5.00% 5.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 50V 50V
*A-16 A Boa	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-037-11  1-126-935-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR > ELECT CERAMIC CHIP CERAMIC CHIP	MPDIETOR, C., P, SI 100UF 18PF 0.022UI 470UF	AP TYPE W (+) W (+) 2 5 F 1	20.00% 16V 6.00% 50V 0.00% 50V 0.00% 16V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11 1-163-021-91 1-164-346-11 1-163-009-11	SHORT ELECT ELECT  CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 10UF 0.01UF	20.00% 20.00% 10.00% 20.00% 5.00% 5.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 25V 50V
*A-16 A Boz 1001 1002 1004 1005 1006	4-203-258-01 4-203-258-01 4-374-846-01 4-382-854-01 4-382-854-11 < CAPACIT 1-126-933-11 1-163-233-11 1-163-233-11 1-163-233-11	HOLDER, LED COVER, CAPACI SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP	TTOR, CA, P, SI 100UF 18PF 0.022UF 18PF	AP TYPE W (+) W (+) 2 5 5 5	20.00% 16V 6.00% 50V 0.00% 50V 0.00% 16V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11 1-163-021-91 1-164-346-11 1-163-009-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 10UF 0.01UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 20.00% 10.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 25V 50V 50V 50V
*A-16 A Boz	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-233-11  1-163-233-11  1-163-037-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT	TTOR, CA, P, SI 100UF 18PF 0.022UF 18PF	AP TYPE W (+) W (+) 5 5 F 1	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 5.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11 1-163-021-91 1-164-346-11 1-163-009-11 1-163-009-11	SHORT ELECT ELECT  CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.01UF 10UF 0.01UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 20.00% 10.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 25V 50V 50V 50V
*A-16 A Bos 001 002 004 005 006	32-897-A  Ard, Common  4-203-258-01  4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-233-11  1-163-233-11  1-163-037-11  1-163-037-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X10) OR >  ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP	TOR, CA, P, SI 100UF 18PF 0.022UI 470UF 0.022UI 0.022UI	AP TYPE W (+) W (+)  5 F 1 F 1	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 6.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-163-009-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-009-11 1-163-009-11 1-164-346-11	SHORT ELECT ELECT  CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF 1UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 20.00% 10.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 50V 16V 50V
*A-16  A Boz  01  02  04  05  06  07  09  11	32-897-A  Ard, Common  4-203-258-01  4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-233-11  1-163-233-11  1-163-037-11  1-163-037-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) FOR >  ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	TOR, CA, P, SI 100UF 18PF 0.022UI 470UF 0.022UI 0.022UI	AP TYPE W (+) W (+)  5 F 1 F 1 1	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-009-11 1-164-346-11 1-164-346-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF 1UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 20.00% 10.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V
*A-16  A Boz  01  02  04  05  06  07  09  11  12	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-233-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10)  FOR >  ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100UF 18PF 0.022UI 470UF 0.022UI 470PF 4.7UF	AP TYPE W (+) W (+)  5 F 1 1 2	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-009-11 1-164-346-11 1-164-346-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF 1UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00%	16V 50V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V
*A-16  A Boa  01  02  004  005  007  009  111  112	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  < CAPACIT  1-126-933-11  1-163-233-11  1-163-233-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) FOR >  ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	100UF 18PF 0.022UI 470UF 0.022UI 470PF 4.7UF	AP TYPE W (+) W (+)  5 F 1 1 2	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-348-11 1-163-021-91 1-164-346-11 1-163-099-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.01UF 1UF 0.01UF 1UF 0.001UF 1UF 1UF 0.15UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00%	16V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V 16V
*A-16 A Boa 001 002 004 005 006 007 009 001 012 013	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  < CAPACIT  1-126-933-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) FOR >  ELECT CERAMIC CHIP	100UF 18PF 0.022UI 470UF 0.022UI 470UF 0.022UI 470PF 4.7UF 0.01UF	AP TYPE W (+) W (+)  5 F 1 2 2 1	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438 C449	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-348-11 1-163-021-91 1-164-346-11 1-163-099-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.01UF 1UF 0.01UF 1UF 0.001UF 1UF 1UF 0.15UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00%	16V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V 16V
*A-16 A Boz 001 002 004 005 006 007 009 001 111 112 113	4-203-258-01 4-203-258-01 4-374-846-01 4-382-854-01 4-382-854-11  < CAPACIT 1-126-933-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-01-11 1-163-01-11 1-163-01-11 1-163-01-11 1-163-01-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) FOR >  ELECT CERAMIC CHIP	TOR, CA, P, SI 100UF 18PF 0.022UI 470UF 18PF 0.022UI 470F 4.7UF 0.01UF	AP TYPE W (+) W (+)  2 5 F 1 1 2 1	20.00% 16V 5.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438 C449	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-348-11 1-163-021-91 1-164-346-11 1-163-099-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.01UF 1UF 0.01UF 1UF 0.001UF 1UF 1UF 0.15UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00%	16V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V 50V 50V 25V 50V 50V 50V 50V 50V 50V 50V 50V 50V 5
*A-16 A Boa 001 002 004 005 006 007 009 001 012 013 014 015	4-203-258-01 4-203-258-01 4-374-846-01 4-382-854-01 4-382-854-11  < CAPACIT 1-126-933-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-037-11 1-163-01-11 1-163-01-11 1-163-01-11 1-163-01-11 1-163-01-11	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT CERAMIC CHIP	TOR, CA, P, SI 100UF 18PF 0.022UI 470UF 18PF 0.022UI 470F 4.7UF 0.01UF	AP TYPE W (+) W (+)  2 5 F 1 1 1 1 1	20.00% 16V 5.00% 50V 0.00% 50V 20.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438 C449	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-348-11 1-163-021-91 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-392-11	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF 1UF 0.001UF 1UF 0.001UF 1UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00% 10.00%	16V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V 16V 50V 25V 50V
*A-16 A Boa 001 002 004 005 006 007 009 001 012 013 014 015 017	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  -(CAPACIT  1-126-933-11  1-163-233-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	TOR, C., P, SI  100UF 18PF 0.022UI 470UF 18PF 0.022UI 470UF 0.01UF 0.01UF 0.01UF	AP TYPE W (+) W (+)  5 F 1 1 2 1 1 1 2	20.00% 16V 3.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438 C449 C501 C502 C503	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-163-021-91 1-163-021-91 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-968-11 1-126-968-11 1-126-968-11	SHORT ELECT ELECT CERANIC CHIP ELECT CERANIC CHIP ELECT CERANIC CHIP ELECT MYLAR	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.01UF 1UF 0.001UF 1UF 0.001UF 1UF 0.15UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00%	16V 50V 16V 50V 25V 50V 25V 50V 16V 50V 16V 16V 50V 25V 50V 16V
*A-16  A Boz  01  02  04  05  06  11  12  13  14  15  17  18	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  -(CAPACIT  1-126-933-11  1-163-233-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT CERAMIC CHIP	MPDIETE  TOR, CA  , P, SI  100UF 18PF 0.022UI 470UF 18PF 0.022UI 470PF 4.7UF 0.01UF 0.01UF 0.01UF 0.01UF	AP TYPE W (+) W (+)  5 F 1 1 2 1 1 1 2 1	20.00% 16V 3.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438 C449 C501 C502 C503 C504 C505	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-346-11 1-163-009-11 1-163-009-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-968-11 1-163-038-91 1-126-968-11 1-106-220-00 1-137-194-81	SHORT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT MYLAR MYLAR	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.01UF 1UF 0.001UF 1UF 0.05UF 1UF 0.15UF 100UF 0.15UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00% 10.00% 20.00% 10.00% 20.00% 10.00%	16V 50V 16V 50V 25V 50V 25V 50V 50V 16V 50V 16V 50V 16V 50V 16V 50V 16V 50V 50V 50V 50V 50V 50V 50V 50
*A-16	32-897-A  Ard, Common  4-203-258-01  *4-374-846-01  4-382-854-01  4-382-854-11  -(CAPACIT  1-126-933-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-037-11  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91  1-163-021-91	HOLDER, LED COVER, CAPACI SCREW (M3X8), SCREW (M3X10) OR >  ELECT CERAMIC CHIP ELECT CERAMIC CHIP	TOR, CA, P, SI  100UF 18PF 0.022UI 470UF 18PF 0.022UI 470PF 4.7UF 0.01UF 0.01UF 0.01UF	AP TYPE W (+) W (+)  2 5 F 1 1 2 1 1 1 1	20.00% 16V 3.00% 50V 0.00% 50V		C055 C100 C103 C105 C106 C110 C111 C253 C403 C408 C409 C410 C415 C421 C426 C437 C438 C449 C501 C502 C503 C504	1-216-295-91 1-126-933-11 1-126-965-11 1-163-021-91 1-126-933-11 1-163-113-00 1-163-113-00 1-164-336-11 1-164-348-11 1-164-346-11 1-163-021-91 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-164-968-11 1-163-038-91 1-126-968-11 1-106-220-00 1-137-194-81 1-163-021-91	SHORT ELECT ELECT CERANIC CHIP ELECT CERANIC CHIP ELECT CERANIC CHIP ELECT MYLAR	0 100UF 22UF 0.01UF 100UF 68PF 68PF 0.33UF 0.001UF 0.12UF 10UF 0.01UF 1UF 0.001UF 1UF 0.15UF 100UF 0.15UF 100UF 0.15UF	20.00% 20.00% 10.00% 20.00% 5.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 10.00%	16V 50V 16V 50V 25V 50V 25V 50V 50V 16V 50V 16V 50V 16V 50V 16V 50V 16V 50V 50V 50V 50V 50V 50V 50V 50

The components identified by shading and marked ∆ are critical for safety
Replace only with the part number specified.



REF. NO.	PART.NO	DESCRIPTION	ON	RE	MARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK
C509	1-107-364-11		0.01UF	10.00%	400V	C619	1-164-644-11	CERAMIC	330PF	10.00%	500V
C510	1-163-005-11	CERAMIC CHIE	470PF	10.00%	50V	C620	1-135-871-21	FILM	15000PF	3%	800V
C513	1-128-560-11	ELECT	22UF	20.00%	100V	C621	1-164-644-11	CERAMIC	330PF	10.00%	500V
C515	1-104-666-11	ELECT	220UF	20.00%	25V	C622	A [5104-571-91	CERAMIC	0.00150F	THE RESERVE AND ADDRESS OF THE PARTY OF THE	
C517	1-104-666-11	ELECT	220UF	20.00%	25V	C623	A 1=104-571-91	CERAMIC	0.001507	10.00	2kV
C518	1-106-375-12		0.022UF	10.00%		C624	1-126-935-11		470UF	20.00%	16V
C519	1-163-275-11	CERAMIC CHIE	0.001UF	5.00%		C625	ል <sub>፡፡</sub> 1-117-703-11	ACCUSION NOT CALLED VARIABLE V	0.004707	994	250V
C520	1-163-038-91	CERAMIC CHIE	0.1UF		25V	C626	1-126-967-11	ELECT	47UF	20.00%	50V
C522	1-130-495-00	MYLAR	0.1UF	5.00%	50V	C627	1-126-964-11	ELECT	10UF	20.00%	50V
C524	1-216-295-91	SHORT	0			C628	1-126-963-11	ELECT	4.7UF	20.00%	50V
C525	1-123-024-21		33UF		160V	C630	1-107-640-41	ELECT	100UF	20.00%	160V
C531	1-126-964-11		10UF	20.00%		C631	1-126-942-61	ELECT	1000UF	20.00%	25V
C532	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C632	1-126-964-11	ELECT	10UF	20.00%	50V
C535		CERAMIC CHIP		5.00%		C633	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C536	1-119-859-11	FILM	0.36UF	5.00%	250V	C635	1-136-165-00	MYLAR	0.1UF	5.00%	50V
C537	1-106-343-00	MYLAR	0.001UF	10.00%	200V	C636	1-136-479-11	FILM	0.001UF	2.00%	50V
C538	1-165-319-11	CERAMIC CHIP	0.1UF		50V	C637	1-126-967-11	ELECT	47UF	20.00%	50V
C539	1-107-642-91	ELECT	3.3UF	20.00%	200V	C638	1-107-679-91	ELECT	10UF	20.00%	450V
C540	1-136-206-11	MYLAR	0.033UF	10.00%	400V	C639	1-104-665-11	ELECT	100UF	20.00%	25V
C541	1-106-383-00	MYLAR	0.047UF	10.00%	200V	C640	1-104-664-11	ELECT	47UF	20.00%	25V
C542	1-162-116-51	CERAMIC	680PF	10.00%	2KV	C641	1-111-036-11	ELECT	470UF	20.00%	16V
C545	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C642	1-104-665-11	ELECT	100UF	20.00%	25V
C546	1-129-716-00	FILM	0.015UF	5.00%	400V	C643	1-164-644-11	CERAMIC	330PF	10.00%	500V
C547	1-117-671-21	FILM	10F	5.00%	250V	C645	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C550	1-107-638-11	ELECT	33UF	20.00%	160V	C648	1-125-782-91	CERAMIC	4700PF	10.00%	1KV
C552	1-102-212-00	CERAMIC	820PF	10.00%	500V	C657	1-126-952-11	ELECT	1000UF	20.00%	35V
C555	1-117-637-31	FILM	5600PF	3.00%	1.2KV	C1201	1-126-952-11	ELECT	1000UF	20.00%	35V
C580	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C1203	1-126-942-61	ELECT	1000UF	20.00%	25V
C582	1-163-255-11	CERAMIC CHIP	150PF	5.00%	50V	C1205	1-163-033-91	CERAMIC CHIP	0.022UF		50V
C583	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V	C1207	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
Ç600. 🗳	1 14 14 14 18 18 18 1	CERANIC	2200PF	20 00k	250V	C1208	1-535-303-00	LEAD, JUMPER	(5.00MM)		
C601 A	1-136-516-12	TIM:	0.107	20.00%	300V:*	C1218	1-109-982-11	CERAMIC CHIP	1UF	10.00%	10V
	1-136-516-12		0.107.	20:004		C1219	1-104-666-11	ELECT	220UF	20.00%	25V
	ាក់(ខេត្តខេត្ត),			20.00%	Achteria Colorada Maria Cara Colorada C	C1220	1-164-346-11	CERAMIC CHIP	1UF		16V
C604 A	21119-888-51	CERANTO	2200PF	20-00%	250V	C1221	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C605	1-126-935-11	ELECT	470UF	20.00%	16V	C1223	1-163-125-00	CERAMIC CHIP	220PF	5.00%	50V
C606	1-125-991-11	ELECT	180UF	20%	450V	C1226	1-110-501-11	CERAMIC CHIP	0.33UF	10.00%	16V
C607	1-126-964-11	ELECT	10UF	20.00%	50V	C1227	1-163-125-00	CERAMIC CHIP	220PF	5.00%	50V
C608	1-126-963-11	ELECT	4.7UF	20.00%	50V						
C610	1-126-941-11	ELECT	470UF	20.00%	25V		< CONNECT	OR >			
C611	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V	CN001	*1-564-508-11	PLUG, CONNECT	TOR 5P		
C612: 🛕	1-104-571-91	CERAMIC	0 0015UF	10.00%	2KV	CN501	*1-580-798-11				
C613	19104-571-91	CERAMIC	0.0015UF	10.00%	2KV	CN504	*1-564-509-11	PLUG, CONNECT	TOR 6P		
	1-161-964-519				250V	CN508	*1-564-508-11				
C615		CERAMIC CHIP		10.00%	50V	CN(60) Long	N=11=580=84S⊊1↓			1265	
C617	1-164-644-11	CERAMIC	330PF	10.00%	500V	2V602 303	Nami = 508=765=00	DPIN CONNECTO	R (SIM DY	CH (a2p.s	
C618	1-126-949-11		220UF	20.00%			11-508-786:00				
5010	1-120-343-11	EDEC1	2200F	20.006	JJ T	2000 C	AND ASSOCIATION OF THE PROPERTY OF THE PROPERT	an seconded		ALL TAKE	



The components identified by shading and marked △ are critical for safety Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
CN604	A 1=695-915-11	TAB (CONTACT)	ate to be a second	D505	8-719-988-61	DIODE 1SS355TE-17	
CN1201	*1-564-506-11	PLUG, CONNECTOR 3P	market and a comment of the comment	D506	8-719-908-03	DIODE GP08DPKG23	
		•		D507	8-719-070-56	DIODE PDZ5.1B-115	
	< DIODE >	>		D512	8-719-908-03	DIODE GP08DPKG23	
				D513		DIODE BYD33G-AMMO	
D001	8-719-069-55	DIODE UDZS-TE17-5.6B					
D002		DIODE UDZS-TE17-5.6B		D514	8-719-908-03	DIODE GPO8DPKG23	
D003		DIODE MTZJ-T-77-3.6B		D534		DIODE GP08DPKG23	
D004		DIODE SEL1210S-D		D535		DIODE GP08DPKG23	
D005		DIODE MTZJ-T-77-8.2B		D536		DIODE ERCO6-15SL	
				D537		DIODE MTZJ-T-77-9.1C	
D006	8-719-109-89	DIODE MTZJ-T-77-5.6B			0 100 000 00		
D007		DIODE UDZS-TE17-5.6B		D538	8-719-908-03	DIODE GP08DPKG23	
D008		DIODE BAS316-115		D539		DIODE ERD28-06S	
D010		DIODE BAS316-115		D541		LEAD, JUMPER (5.00MM)	
D011		DIODE BAS316-115		D573		DIODE UDZ-TE-17-4.7B	
D011	0-113-014-43	DIODE BROSTO 113		D601		DIODE D4SB60L-F	
D012	9_719_110_09	DIODE MTZJ-T-77-8.2B		5001	0-113-310-33	DIODE D40BOOE-1	
D013		DIODE MTZJ-T-77-3.6B		D602	9_710_011_10	DIODE 1SS119-25TD	
D014		DIODE UDZ-TE-17-3.9B		D604		DIODE UF4005PKG23	
D014		DIODE MTZJ-T-77-5.6B		D608			
D016						DIODE DINL20U-TA2	
DULI	9-113-103-31	DIODE MTZJ-T-77-6.8B		D610		DIODE RD15ES-T1B2	
D010	0 710 100 60	07000 MRT # 77 2 CD		D611	9-113-331-33	DIODE 1SS133T-77	
D018		DIODE MTZJ-T-77-3.6B		DC10	6 740 001 22	DTANE 144100m FF	
D019		DIODE MTZJ-T-77-6.8B		D612		DIODE 1SS133T-77	nato Salado de Lordo de Calenda de Calenda de Companyo de Calenda de Calenda de Calenda de Calenda de Calenda d
D020		DIODE MTZJ-T-77-5.6B				DIODE ISS119-25TD	
D035		DIODE UDZS-TE17-5.6B		D614		DIODE D2SB60A-F04	
D036	8-719-069-55	DIODE UDZS-TE17-5.6B		D615		DIODE MTZJ-T-77-8.2B	
				D616	8-719-052-90	DIODE D1NL40-TA2	
D051		DIODE UDZS-TE17-6.8B					
D101		DIODE MA8330-TX		D617		DIODE D1NL40-TA2	
D103		DIODE UDZS-TE17-6.8B		D618		DIODE D2S4MTA1	
D104		DIODE UDZS-TE17-5.6B		D619		DIODE D2S4MTA1	
D210	8-719-069-55	DIODE UDZS-TE17-5.6B		D620		DIODE MTZJ-T-77-5.1B	
				D621	8-719-109-89	DIODE MT2J-T-77-5.6B	
D211		DIODE UDZS-TE17-9.1B					
D212	8-719-914-43	DIODE DAN202K-T-146		D623	8-719-911-19	DIODE 1SS119-25TD	
D402	8-719-069-57	DIODE UDZS-TE17-6.8B		D627		DIODE D1NL20-TA	
D405	8-719-069-57	DIODE UDZS-TE17-6.8B		D629	8-719-073-23	DIODE STO2D-200TA	
D406	8-719-069-57	DIODE UDZS-TE17-6.8B		D631	8-719-921-63	DIODE MTZJ-T-77-7.5B	
				D632	8-719-063-70	DIODE D1NL20U-TA2	
D407	8-719-069-57	DIODE UDZS-TE17-6.8B					
D412	8-719-069-57	DIODE UDZS-TE17-6.8B		D633	8-719-109-69	DIODE MTZJ-T-77-3.6B	
D414	8-719-069-57	DIODE UDZS-TE17-6.8B		D634	8-719-074-43	DIODE BAS316-115	
D420	8-719-069-57	DIODE UDZS-TE17-6.8B		D639	8-719-080-59	DIODE EK19-VO	
D421	8-719-049-26	DIODE RB721QT-77		D640	8-719-921-63	DIODE MTZJ-T-77-7.5B	
				D1201	8-719-069-55	DIODE UDZS-TE17-5.6B	
D423	8-719-069-57	DIODE UDZS-TE17-6.8B					
D424	8-719-069-60	DIODE UDZS-TE17-9.1B		D1203	8-719-914-43	DIODE DAN202K-T-146	
D435		DIODE UDZS-TE17-9.1B		D1204		DIODE UDZS-TE17-5.6B	
D436		DIODE UDZS-TE17-9.1B					
D501		DIODE GP08DPKG23			< FUSE >		
0502	8-719-056-95	DIODE UDZ-TE-17-22B		F60	1-576-237-21	FUSE (H. B.C.) SAV250V	
D502		DIODE UDZS-TE17-5.6B				HOLDER, FUSE (F60)	
D503		DIODE BAS316-115					
1503	0-115-014-43	DIODE BUODIG-IID					

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
	< FERRITE	BEAD >		L601	1-408-603-31		10UH	
				L602	1-408-611-31	INDUCTOR	47UH	
FB601	1-410-397-21	FERRITE	1.1UH	L603	1-412-524-11		8.2UH	
FB604	1-410-397-21	FERRITE	1.1UH	L1200		LEAD, JUMPER (		
FB605	1-410-397-21		1.1UH	L1203	1-535-303-00	LEAD, JUMPER (	5.0MM)	
	V 1 (1/2-011-1)		OUR.		< PHOTO C	OUPLER >		
	< IC >			PH601 4	8-749-016-21.	TO TOETH 103G		
	0.740.017.44	TO MOODIEARCEI			< TRANSIS	TOR >		
IC002		IC TSOP1540SE1			/ tumoto	1011 /		
IC003	8-759-672-39			Q016	8-729-120-28	TRANSISTOR 2SC2	412K-T-146-F	l
IC501	8-759-324-56			0212		TRANSISTOR 2PD6		
IC531	8-759-665-11			Q401		TRANSISTOR 2SA1		)R
IC601	8-759-671-30	IC MCZ300ID		Q401 Q411		TRANSISTOR 2SC2	-	-
				Q532		TRANSISTOR IRF6		`
IC602		IC SE135N-LF4	r¢.	2332	0-123-033-33	THENTING INTO		
IC604		IC BA41W12ST-V		Q533	9_729_051_92	TRANSISTOR BU45	08DX-0N5210	
IC608		IC L78L33ABZ-A	LP CONTRACTOR	Q535		TRANSISTOR IRF6		
IC609	8-759-468-89			Q601		TRANSISTOR 2SA1		פר
IC1201	8-759-665-29	IC TDA/494S		Q601 Q602		TRANSISTOR 2SC1		¢*,
				-		TRANSISTOR DTAI		
	< SOCKET	>		Q603	0-129-029-30	INNUSTRIAN DIAL	- THEON-IF	
J401	1-770-130-11	CONNECTOR (SQU	JARE TYPE) 21P	Q604		TRANSISTOR DTC1		
J402	1-794-344-11	JACK, PIN 2P		Q606	8-729-052-29	TRANSISTOR 2SK2	2876-01MR-F1	22
J1200	1-568-267-21	•		Q607	8-729-052-29	TRANSISTOR 2SK2	2876-01MR-F1	22
	2 000 201 20			Q608	8-729-120-28	TRANSISTOR 2SC2	2412K-T-146-	QR .
	< COIF >			Q609	8-729-026-49	TRANSISTOR 2SAI	L037AK-T146-	QR
L001	1-408-611-31		47UH		< RESISTO	OR >		
L002	1-410-119-11	INDUCTOR	1MH					
L004	1-408-611-31	INDUCTOR	47UH	JR002	1-216-295-91			
L006	1-408-611-31	INDUCTOR	47UR	JR009	1-216-295-91			
L027	1-216-295-91	SHORT	0	JR023	1-216-295-91			
				JR208	1-216-295-91			
L101	1-412-533-21	INDUCTOR	47UH	JR401	1-216-295-91	SHORT	0	
L102	1-408-611-31		47UH					
L405		LEAD, JUMPER		JR404	1-216-295-91		0	
L407		LEAD, JUMPER		JR408	1-216-296-91		0	
L410	1-216-025-91	RES-CHIP	100 5% 1/10W	JR409	1-216-295-91		0	
				JR420	1-216-295-91		0	
L446	1-216-295-91		0	JR508	1-216-295-91	SHORT	0	
L501	1-414-187-11		47UE				•	
L502	1-412-531-31		33UH	JR516	1-216-296-91		0	
L503	1-412-521-31	INDUCTOR	4.70H	JR517	1-216-296-91		0	
L504	1-535-303-00	LEAD, JUMPER	(5.0MM)	JR601	1-216-296-91		0	
				JR609	1-216-296-91	SHORT	0	
L505		LEAD, JUMPER	(5.0MM)					. /4.0
L507	1-412-533-21	INDUCTOR	47UH	R003	1-216-065-91			1/10W
1532	1-412-553-11		3.3MH	R004	1-216-033-00			1/10W
L533	1-406-989-21		10MH	R005	1-216-190-00	RES-CHIP		1/8W
L535	1-459-111-00		10MH	R006	1-216-025-91	RES-CHIP	100 5%	1/10W
				R007	1-216-025-91	RES-CHIP	100 5%	1/10W
1537		COIL, HORIZON			4 046 000 01	780 CH-7	100 50	1 /100
L538	1-406-984-11	INDUCTOR	1.5MH	R008	1-216-025-91	RES-CHIP	100 5%	1/10W



REF. NO.	PART.NO	DESCRIPTIO	)N		REMARK	REF. NO.	PART.NO	DESCRIPTION	N		REMARK
R009	1-216-049-91	RES-CHIP	1K	5%	1/10W	R070	1-216-025-91		100	5%	1/10W
R010	1-216-049-91	RES-CHIP	1K	5%	1/10W	R071	1-216-049-91		1K	58	1/10W
R011	1-216-295-91	SHORT	0			R072	1-216-295-91		0		
R012	1-216-113-00	RES-CHIP	470K	5%	1/10W	R074	1-216-073-00	RES-CHIP	10K	5%	1/10W
R014	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R075	1-216-295-91	SHORT	0		
R017	1-216-174-00	RES-CHIP	100	5%	1/8W	R089	1-216-295-91	SHORT	0		
R018	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R093	1-216-081-00	RES-CHIP	22K	5%	1/10W
R020	1-216-077-91	RES-CHIP	15K	5%	1/10W	R094	1-216-025-91	RES-CHIP	100	5%	1/10W
R021	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R095	1-216-065-91	RES-CHIP	4.7K	58	1/10W
R022	1-216-089-91	RES-CHIP	47K	5%	1/10W	R096	1-216-025-91	RES-CHIP	100	5%	1/10W
R023	1-216-180-00	RES-CHIP	180	5%	1/8W	R101	1-216-093-91	RES-CHIP	68K	5%	1/10W
R024	1-216-025-91		100	5%	1/10W	R102	1-216-097-91	RES-CHIP	100K	5%	1/10W
R025	1-216-025-91		100	5%	1/10W	R104	1-216-295-91	SHORT	0		
R026	1-216-025-91		100	5%	1/10W	R106	1-215-900-11	METAL OXIDE	22K	5%	2W
R027	1-216-025-91		100	5%	1/10W	R107	1-216-025-91	RES-CHIP	100	5%	1/10W
R028	1-216-025-91	RES-CHIP	100	5%	1/10W	R108	1-216-025-91	RES-CHIP	100	5%	1/10W
R029	1-216-061-00		3.3K		1/10W	R246	1-260-107-11		4.7K		1/2W
R031	1-216-210-00		3.3K		1/8W	R248	1-249-429-11		10K		1/4W
R031	1-216-073-00		10K	5%	1/10W	R249	1-216-097-91		100K		1/10W
R034	1-216-123-11		1.2M		1/10W	R250	1-216-230-00		22K		1/8W
R035	1-216-101-00	מומי-טפל	150K	5%	1/10W	R401	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R036	1-216-101-00		27K	5¥	1/10W	R404	1-216-113-00		470K		1/10W
R038	1-216-295-91		0	J.	2/2011	R406	1-216-214-00		4.7K		1/8W
R039	1-216-293-91		4.7K	5%	1/8W	R408	1-216-022-00		75	5%	1/10W
R040	1-216-049-91		1K	5%	1/10W	R409	1-216-025-91		100	5%	1/10W
D041	1 016 005-01	DEC_CUID	100	5%	1/10W	R410	1-216-025-91	RES-CHIP	100	5%	1/10W
R041	1-216-025-91 1-216-025-91		100	5%	1/10W	R411	1-216-022-00		75	5%	1/10W
R042	1-216-023-91		10K	5%	1/10W	R412	1-216-025-91		100	5%	1/10W
R044	1-216-075-00		100	5%	1/10W	R414	1-216-022-00		75	5%	1/10W
R045 R046	1-216-025-91		100	5%	1/10W	R415	1-216-022-00		75	5%	1/10W
	4 044 005 05		100	E 0.	1 /1 012	D416	1-216-027-00	RES-CHIP	120	5%	1/10W
R047	1-216-025-91		100	5%	1/10W	R416 R419	1-216-027-00		75	5%	1/10W
R048	1-216-073-00		10K	5%	1/10W	R419	1-216-022-00		1K	5%	1/10W
R050	1-216-174-00		100	5%	1/8W	R421	1-216-049-91		470K		1/10W
R051 R055	1-216-295-91 1-216-174-00		0 100	5%	1/8W	R425	1-216-113-00		33K	5%	1/10W
					. /4 000	2125	1 016 070 00	DES CUITS	100	Εū	1 /1 OW
R056	1-216-025-91		100	5%	1/10W	R426	1-216-073-00		10K	5%	1/10W
R057	1-216-083-00		27K	5%	1/10W	R435	1-216-295-91		0 1 P	E 0.	1 /1 014
R060	1-216-174-00		100	5%	1/8W	R440	1-216-049-91		1K	5%	1/10W
R061	1-216-174-00		100	5%	1/8W	R441	1-216-051-00		1.2K		1/10W
R062	1-216-077-91	RES-CHIP	15K	5%	1/10W	R444	1-216-061-00	KE2-CHIP	3.3K	28	1/10W
R063	1-216-061-00		3.3K		1/10W	R445	1-216-022-00		75	5%	1/10W
R064	1-216-069-00		6.8K	5%	1/10W	R446	1-216-113-00		470K	5∜	1/10W
R065	1-216-295-91	SHORT	0			R447	1-216-295-91		0		
R066	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R453	1-216-171-00		75	5%	1/8W
R067	1-216-073-00	RES-CHIP	10K	5%	1/10W	R454	1-216-001-00	RES-CHIP	10	5%	1/10W
R068	1-216-083-00	RES-CHIP	27K	5%	1/10W	R461	1-216-022-00	RES-CHIP	75	5%	1/10W
R069	1-216-073-00		10K	5%	1/10W	R501	1-216-091-00	RES-CHIP	56K	5%	1/10W
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REF. NO.	PART.NO	DESCRIPTIO	N	REMARK		REF. NO.	REF. NO. PART.NO		N		REMARK	
R502	1-216-073-00	RES-CHIP	10K	5%	1/10W	R561	1-216-129-00	RES-CHIP	2.2M	5%	1/10W	
R503	1-215-888-00	METAL OXIDE	220	5%	2W	R562	1-216-121-91	RES-CHIP	1M	5%	1/10W	
R504	1-249-385-11	CARBON	2.2	5%	1/4W	R565	1-216-025-91	RES-CHIP	100	5%	1/10W	
1505	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	R583	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R506	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W	R589	1-216-295-91	SHORT	0			
R507	1-216-349-00	METAL OXIDE	1	5%	1W	R591	1-217-778-11	FUSIBLE	1K	5%	1W	
R508	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	R595	1-249-377-11	CARBON	0.47	5%	1/4W	
509	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W	R600	1-216-619-11	METAL CHIP	47	0.5%	1/10W	
1510	1-216-113-00	RES-CHIP	470K	5%	1/10W	R601	1-216-641-11	METAL CHIP	390	0.5%	1/10W	
R512	1-249-382-11	CARBON	1.2	5%	1/4W	R602	1-202-962-11	CEMENTED	3.3	5%	10W	
513	1-216-097-91	RES-CHIP	100K	5%	1/10W	R603	1-220-926-11	FUSIBLE	0.47	10%	1/2W	
514	1-249-377-11	CARBON	0.47	5%	1/4W	R605	1-216-049-91	RES-CHIP	1K	5%	1/10W	
515	1-249-377-11	CARBON	0.47	5%	1/4W	R606 A	1-202-719-00	SOLID	- 134	-109	1/20	
R516	1-214-907-00	METAL	56K	1%	1/2W	R608	1-216-073-00		10K	5%	1/10W	
R517	1-215-469-00	METAL	100K	1%	1/4W	R609	1-216-675-91		10K		1/10W	
518	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W	R610	1-215-481-00	METAL	330K	1%	1/4W	
520	1-215-883-11	METAL OXIDE	33	5%	2W	R611	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	
521	1-216-109-00	RES-CHIP	330K		1/10W	R612	1-249-429-11		10K	5%	1/4W	
522	1-216-069-00	RES-CHIP	6.8K		1/10W	1	1-218-265-11					
523	1-216-117-00		680K		1/10W	R615	1-215-405-00		220	18	1/4W	
524	1-216-075-00	RES-CHIP	12K	5%	1/10W	R618	1-247-889-00	CARBON	270K	5%	1/4W	
525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R619	1-216-065-91	RES-CHIP	4.7K		1/10W	
526	1-216-089-91	RES-CHIP	47K	5%	1/10W	R621	1-216-113-00		470K		1/10W	
527	1-216-075-00	RES-CHIP	12K	5%	1/10W	R622	1-216-073-00	RES-CHIP	10K	5%	1/10W	
528	1-216-097-91		100K	5%	1/10W	R623	1-216-081-00	RES-CHIP	22K	5%	1/10W	
529	1-216-073-00	RES-CHIP	10K	5%	1/10W	R624	1-216-001-00	RES-CHIP	10	5%	1/10W	
530	1-216-085-00	RES-CHIP	33K	5%	1/10W	R625	1-216-073-00	RES-CHIP	10K	5%	1/10W	
531	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R627	1-249-389-11		4.7	5%	1/4W	
532	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R628	1-247-791-91		22	5%	1/4W	
533	1-216-081-00		22K	5%	1/10W	R629	1-216-073-00		10K	5%	1/10W	
534	1-216-093-91	RES-CHIP	68K	5%	1/10W	R632	1-249-417-11	CARBON	1K	5%	1/4W	
535	1-216-083-00	RES-CHIP	27K	5%	1/10W	R633	1-215-481-00	METAL	330K	18	1/4W	
539	1-215-892-11	METAL OXIDE	1K	5%	2W	R634	1-216-341-11		0.22		1W	
540	1-217-495-00		150	5%	1W	R635	1-260-300-11		4.7	5%	1/2W	
542	1-216-121-91		1M	5%	1/10W	R636	1-249-413-11		470	5%	1/4W	
543	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R637	1-216-041-00	RES-CHIP	470	5%	1/10W	
544	1-216-103-00	RES-CHIP	180K		1/10W	R639	1-216-683-11				1/10W	
546	1-215-923-00		10K		3W	R640	1-216-699-91				1/10W	
547						R641	1-216-097-91		100K		1/10W	
548	1-212-849-00		4.7		1/4W	R642	1-249-405-11		100	5%	1/4W	
549	1-216-362-11	METAL OXIDE	0.27	5%	2W	R643	1-216-089-91	RES-CHIP	47K	5%	1/10W	
551	1-215-873-00		4.7K		1W	R645	1-216-073-00			5%	1/10W	
552	1-216-097-91		100K		1/10W	R647	1-216-049-91		1K	5%	1/10W	
553	1-249-381-11		1		1/4W	R648	1-215-481-00				•	
557	1-216-065-91		4.7K		1/10W	R649	1-215-481-00		330K 9.1K		1/4W 1/10W	
558	1-216-025-91	RES-CHID	100	5%	1/10W	R650	1-216-627-11	METAL CUID	100	N 52	1/10W	
559	1-247-863-91				1/4W						1/10W	
1222	7-741.000.31	WILDON	441	20	±/ 4π	VANT. SA	**************************************	*ADTDRE		TOP	TI'LL	



The components identified by shading and marked △ are critical for safety Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	REF. NO.	PART.NO	DESCRIP	TION		REMARK
R652	1-216-081-00	RES-CHIP	22K	5%	1/10W	A Boa	rd Variant Pa	rts KV-1	4LM1	p	
R653	1-216-073-00	RES-CHIP	10K	5%	1/10W						
R654	1-216-001-00	RES-CHIP	10	5%	1/10W		< IC >				
R656	1-216-365-00	METAL OXIDE	0.47	5%	2W						
R660	1-247-807-31	CARBON	100	5%	1/4W	IC001	8-759-671-89	IC TDA9390	OH/N1/3/0	130/T	3
						IC004	8-759-575-71	IC M24C04-	-wmn6T		
R1200	1-260-093-81		330	5%	1/2W						
R1201	1-260-093-81	CARBON	330	5%	1/2W		< TUNER >	•			
R1204	1-216-049-91		1K	5%	1/10W						
R1205	1-216-061-00		3.3K		1/10W	TU101	8-598-535-00			•	
R1206	1-216-073-00	RES-CHIP	10K	5%	1/10W		8-598-531-00			•	
							8-598-537-00				
R1207	1-216-083-00		27K	5%	1/10W		8-598-527-00	FRONTEND I	BTF-EU601	(KV-)	L4LM1U)
R1213	1-216-198-91	RES-CHIP	1K	5%	1/8W						
	< RELAY >	•				A Boa	rd Variant Pa	rts KV-1	4LT1		⇔ to seem as do d
RY601 △	. 1-755-388-11	RELIAY (AC PO	e e e e e e e e e e e e e e e e e e e		< CAPACIT	OR >					
	< SWITCH	>				C416	1-126-964-11	ELECT	10UF		20.00% 50V
							< DIODE >				
S001	1-571-532-21	SWITCH, TACT	IL								
S002		SWITCH, TACT				D404	8-719-923-38	DIODE MTZ	J-T-77-5.	6B	
5003		SWITCH, TACT				D408	8-719-069-57	DIODE UDZS-TE17-6.8B			
S004		SWITCH, TACT									
S005	1-571-532-21	SWITCH, TACT	IL				< IC >				
2006	1 271 200 01	AUTRON - N.A.	••								
S006		SWITCH, TACT		west		IC001	8-759-671-88	IC TDA9329	9H/N1/4/0	131/T3	3
3001 . A	1-571-433-21	DATACE SENSE	(AL)	Mer.)		IC004	8-759-575-72	IC M24C08-	-wmn6t		
SW532	1_572_707_11	SWITCH, LEVE	D			IC401	8-759-665-11	IC LM393D	r		
5M332	1-5/2-/0/-11	SWITCH, DEVE	r.								
	< TRANSFO	ORMER >					< RESISTO	R>			
	e Cara este proprieta de la companya	at with a second point of the paper on the second	esperiality (	encompanio de se		JR406	1-216-295-91	SHORT	0		
	TV PERCORPANA DESCRIPTION AND PROPERTY OF THE	NEW Average of the second seco	and a said Andreas Stability in 1917	A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	K (NX-1747//U2A4)						
T531		TRANSFORMER,				R420	1-216-073-00	RES-CHIP	10K	5%	1/10W
A NAME OF STREETS	1-435-487-11	CONTRACTOR	TAMES AND PROPERTY OF	<b>TNIME TANGE</b>	<b>建了4000000000000000000000000000000000000</b>	R428	1-216-073-00	RES-CHIP	10K	5%	1/10W
T602		TRANSFORMER,			AND THE PROPERTY OF THE PROPER	R429	1-216-089-91	RES-CHIP	47K	5%	1/10W
T603 A	1-435-525-11	TRANSFURMER,	CONVE	trek 1	* * * * * * * * * * * * * * * * * * *						(KV-14LT1B)
	/ MUDDATA	omon .					1-216-073-00	RES-CHIP	10K		1/10W
	< THERMIS	STUR >							(KV-14L	T1E/14	LT1K/14LT1U)
TH601	1-803-586-11	THERMISTOR,	NTC							_	4.40.00
111001	7 003 300-11	annihitoton,				R430	1-216-073-00		10K	5%	1/10W
THEADS A	1-803-951-11	THERMISTOR	PTC	K AGE		R431	1-216-073-00		10K	5%	1/10W
9114 JV4 II	**************************************	HANNING THE PROPERTY OF				R433	1-216-073-00		10K	5%	1/10W
	< VARISTO	OR >				R434	1-216-073-00	RES-CHIP	10K	5%	1/10W
VDR601 A	1-803-830-11	VARISTOR (ER	ZV14D62	1)			< TUNER >				
						TU101	8-598-535-00	FRONTEND E	STF-EF411	(KV-1	.4LT1B)
	< CRYSTAI	· >					8-598-531-00			•	•
							8-598-537-00			,	•
X001	1-578-774-11	VIBRATOR, CR	YSTAL+				8-598-527-00			•	•

The components identified by shading and marked  $\Delta$  are critical for safety Replace only with the part number specified.

REF. NO.

PART.NO

DESCRIPTION

REMARK

REF. NO. PART.NO DESCRIPTION

REMARK

### MISCELLANEOUS

A 1-4194548-11 COIL DEGAUSSING

1-452-032-00 MAGNET, DISK; 10MM

1-452-094-00 MAGNET, ROTATABLE DISK; 15MM

A 1-453-347-11 TRANSFORMER ASSY: FLYBACK:(NX-1747//U2A4)

1-529-711-11 SPEAKER (8CM)

1-571-433-21 SWITCH PUSH (AC POWER)

1-765-286-11 CORD, POWER (KV-14LMLB/14LMLE/14LMLK/

kv-laltib/laltib/laltik)

776-860-11 POWER CORD, FILTER (KV-141M18/141M18/

RV-14LM10/14LM10)

8-598-535-00 FRONTEND BTF-EF411(KV-14LM1B/14LT1B)

8-598-531-00 FRONTEND BTF-EC401(KV-14LM1E/14LT1E)

8-598-537-00 FRONTEND BTF-EP401(KV-14LM1K/14LT1K)

8-598-527-00 FRONTEND BTF-EU601 (KV-14LM1U/14LT1U)

A 8-735-570-05 PICTURE TUBE (A34LRG70X)

A. 8-451-401-21. DEFLECTION YORE (Y14RSA-L)

△ 1-540-007-13 CAP ASSY, HIGH VOLTAGE

### **ACCESSORIES AND PACKAGING MATERIALS**

\*4-205-481-21 MANUAL, INSTRUCTION (KV-14LM1B/14LT1B)

(GERMAN/FRENCH/ENGLISH/ITALIAN/DUTCH)

\*4-205-481-51 MANUAL, INSTRUCTION (KV-14LM1E/14LT1E)

(DANISH/GERMAN/SPANISH/GREEK/ITALIAN/ NORWEGIAN/PORTUGUESE/SWEDISH/FINNISH/TURKISH)

\*4-205-481-41 MANUAL, INSTRUCTION (KV-14LM1K/14LT1K)

(BULGARIAN/CZECH/ENGLISH/DUTCH/

POLISH/RUSSIAN/SLOVAKIAN)

\*4-205-481-31 MANUAL, INSTRUCTION (KV-14LM1U/14LT1U)

(ENGLISH)

1-501-615-31 ANTENNA, LOOP (KV-14LM1)

1-501-840-11 ANTENNA, TELESCOPIC (KV-14LT1)

\*4-039-905-11 BAG, PROTECTION

\*4-205-480-01 INDIVIDUAL CARTON

\*4-205-479-01 CUSHION (UPPER) (ASSY)

\*4-205-474-01 CUSHION (LOWER) (ASSY)

### REMOTE COMMANDER

1-418-476-21 REMOTE COMMANDER (RM-887) (14LT1)

1-476-176-11 REMOTE COMMANDER (RM-889) (14LM1)